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BUREAU OF ANIMAL INDUSTRY.

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L E T T E R

OF

THE SECRETARY OF AGRICULTURE,

TRANSMITTING

*The report of the operations of the Bureau of Animal Industry for the year 1889.*

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JANUARY 8, 1890.—Referred to the Committee on Agriculture and Forestry and ordered to be printed.

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U. S. DEPARTMENT OF AGRICULTURE,  
OFFICE OF THE SECRETARY,  
Washington, D. C., January 8, 1890.

SIR: I have the honor to transmit herewith a report of the operations of the Bureau of Animal Industry for the year 1889, in compliance with the requirements of section 11 of the act approved May 29, 1884, for the establishment of that bureau.

Very respectfully,

J. M. RUSK,  
Secretary.

The PRESIDENT OF THE SENATE.



## REPORT OF THE OPERATIONS OF THE BUREAU OF ANIMAL INDUSTRY FOR 1889.

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### PLEURO-PNEUMONIA.

The measures for the eradication of the contagious pleuro-pneumonia of cattle, as given in detail in former reports, have been continued during the year without interruption or modification. The progress of the work has been notable, though not as rapid as would be possible if the Department had sufficient authority to properly enforce its regulations. It has often been found difficult to secure the prosecution and conviction of parties who have violated the State laws under which the regulations are made. Some parties who have flagrantly and persistently violated the regulations and even assaulted the officers of the Department have had their cases dismissed by justices of the peace or by the grand juries before which the matter was brought, with the intimation that prosecutions for such offenses would not be countenanced by them.

The great obstacle to the speedy conclusion of this work is, therefore, not in any inherent difficulties in the work itself, but in the impossibility of securing under the present statutes a strict enforcement of the necessary rules. The infected area is, however, constantly decreasing, and the number of herds in which the disease is found is becoming smaller with each quarter. This improvement will be made plain in the tables which follow.

It is gratifying to be able to state that no outbreaks of pleuro-pneumonia have been discovered during the year in the section of the country west of the Alleghany Mountains. It is also fortunate that no extensions of the contagion have occurred in the Eastern States since the report for 1888 was submitted. The absence of such outbreaks has so increased the confidence of cattle owners and shippers that our domestic traffic in cattle outside of the infected districts is no longer influenced to any appreciable extent by the presence of this contagion in the country.

### WORK IN NEW YORK.

One year ago pleuro-pneumonia existed in the counties of Orange, New York, Kings, and Queens. No cases have been discovered in Orange and New York Counties since June, so that the disease has been confined for the last five months to Kings and Queens Counties. These two counties are the oldest and worst infected sections of the country. Many of the dairymen are unfavorably disposed towards the work of eradication, and are unwilling to submit to the regulations. Cattle in many instances have been pastured upon the commons and moved from stable to stable without permit. Exposure in this way accounts for many of the new cases of disease which have recently developed.

Many stables in the infected districts are without ventilation; they



are so constructed that it is impossible to keep them in a proper sanitary condition; there are accumulations of filth under the floors, and the wood-work is rotten and porous. Such buildings can not be satisfactorily disinfected, nor can they be held without stock a sufficient length of time after the diseased herds are removed to insure safety. The result is that in some cases the plague has appeared several times on the same premises.

To prevent these re-infections is one of the most difficult problems which is to be solved. In Maryland there was for a time the same difficulty, and it was removed, in the worst cases, by the State Live Stock Sanitary Board condemning and destroying such buildings as could not be properly disinfected. The compensation in such cases was made from the State appropriation. This Department has, up to the present time, declined to expend any part of the appropriation for the purchase and destruction of buildings, but in certain cases in the badly infected districts of Long Island such action may become necessary for the success of the work.

From December 1, 1888, the date to which the figures were given in the previous report, to November 30, 1889, there were inspected in New York 15,861 herds, containing 149,396 head of cattle. Of this number 137,688 were re-examined by the non-professional assistants, and 33,135 were tagged with numbers and registered upon the books of the Bureau.

There were 156 new herds found affected with pleuro-pneumonia during the year, and these herds contained 3,014 animals, 249 of which were pronounced diseased when the inspections were made. There were purchased for slaughter during the same time 1,053 affected cattle, at a cost of \$28,210.05, an average of \$26.79; also 2,819 exposed cattle, at a cost of \$59,908.93, an average of \$21.25. The smaller cost of the exposed cattle as compared with the affected ones is due to the fact that the amount which the owner realized for the carcasses was deducted from the appraised value, the Department paying the balance.

It has been found necessary to disinfect 339 stables, stock-yards, or other premises during the year, and also to make *post mortem* examinations upon the carcasses of 15,375 bovine animals, of which 1,012 were found diseased with pleuro-pneumonia.

The total expenses in New York from December 1, 1888, to November 30, 1889, have been \$187,814.99, of which \$88,118.98 was paid for cattle purchased for slaughter as either diseased or exposed. The remainder constitutes the expense for disinfecting, inspection, tagging, registering, supervising the movement of cattle, *post-mortem* examinations, and all the various expenses incident to a work of this character.

#### WORK IN NEW JERSEY.

In this State the operations have been almost entirely confined to Hudson County, with the exception of a large diseased herd found in the distillery stables at East Millstone and three affected herds in Essex County, which were infected by cattle taken by dealers from Hudson County, in violation of the quarantine regulations.

The State board of health has for more than six months been desirous of removing the quarantine restrictions from Hudson County, but has consented to maintain them up to the present time upon the urgent representations of this Department that such action was necessary to the success of the work. It is doubtful if proper regulations can be continued in New Jersey under the present system of co-operation until the contagion is completely eradicated. The importance of success here

is exceptionally great because of the traffic in cattle between the infected district in New Jersey and the neighboring counties in New York. If the disease should again become prevalent in the former State, it would be difficult if not impossible to prevent the reinfection of Westchester and New York Counties, in the latter State. There would also be great danger of the infection of cattle destined for shipment to Europe from the port of New York, many of which go through the New Jersey stock-yards. To properly protect this enormous trade between the States and with foreign countries greater powers are required than are now possessed by this Department.

From December 1, 1888, to November 30, 1889, there were inspected in New Jersey 8,455 herds, containing 76,001 head of cattle. Of this number 39,287 were re-examined by the non-professional assistants, and 11,672 were tagged with numbers and registered upon the books of the Bureau.

There were 48 new herds found infected with pleuro-pneumonia during the year, and these herds contained 964 animals, 81 of which were pronounced diseased when the inspections were made. There were purchased for slaughter during the same time 146 affected cattle at a cost of \$2,659, an average of \$22.92 per head; also 704 exposed cattle at a cost of \$16,592, an average of \$23.57.

It has been found necessary to disinfect 208 stables, stock-yards, and other premises, and also to make *post-mortem* examinations upon the carcasses of 14,242 bovine animals, of which 189 were found diseased with pleuro pneumonia.

The total expenses in New Jersey from December 1, 1888, to November 30, 1889, have been \$69,345.42, of which \$19,251 was paid for cattle purchased for slaughter, because they were either diseased or had been exposed.

#### WORK IN PENNSYLVANIA.

As indicated in the last report, quarantine restrictions at Philadelphia were removed on December 15, 1888, and at that time the greater part of the force of the Bureau stationed there was withdrawn. It was deemed advisable, however, to retain at that city two veterinary inspectors and two assistant inspectors, for the purpose of maintaining a supervision of the Philadelphia stock-yards and to watch the slaughter-houses and rendering works for a few months, in order that any reappearance of disease might be promptly detected. The wisdom of this course was made apparent on December 31, when our inspectors discovered at the Philadelphia stock-yards a herd of cattle having contagious pleuro-pneumonia. These cattle had been shipped to Philadelphia from the Somerset distillery stables, at East Millstone, N. J. On being slaughtered, seventeen cases of contagious pleuro-pneumonia were found on *post-mortem* examination. All cattle that had come in contact with this herd were promptly quarantined and slaughtered and the stock-yards were thoroughly disinfected. The railroad cars in which these cattle had been transported were traced to Altoona, Pa., where they were disinfected by officers of the Bureau.

Under date of September 11 the secretary of the State Board of Agriculture informed this Bureau that a herd had been discovered by the State officers in Chester County, Pa., having contagious pleuro-pneumonia; that the State veterinarian had killed two animals and on *post-mortem* examination had pronounced them to be affected with contagious pleuro-pneumonia in an acute form. An officer of the Bureau was



detailed to visit that locality, but failed to find any evidence of lung plague among animals there inspected. For the reason, however, that the premises on which the disease had been reported to exist was a public cattle or drove yard, from which cattle were transported to Wilmington, Del., the stock-yards at Philadelphia, and into other channels of interstate commerce, it was thought necessary, in order to protect the cattle industry of the country from any possible danger, that these premises and also all cattle that had been in contact with the herd reported to have been diseased should be strictly quarantined. This was done, and in addition the stock-yards at Chester, where the disease was said to be, were thoroughly disinfected. The quarantine was maintained for ninety days, and at the end of that time no evidence of lung plague having developed all restrictions were removed.

With these exceptions no contagious pleuro-pneumonia has been found in Pennsylvania during the year, and it is thought that the contagion no longer exists there.

From December 1, 1888, to November 30, 1889, there were inspected in Pennsylvania 1,311 herds, containing 24,003 head of cattle. Of this number 1,285 were re-examined by the non-professional assistants, and 1,513 were tagged with numbers and registered upon the books of the Bureau.

There were no new herds in the State found by our inspectors to be affected with pleuro-pneumonia. There were purchased for slaughter 11 exposed cattle at a cost of \$190, an average of \$17.27 per head.

It was considered advisable to disinfect six stables, stock-yards, and other premises, and 13,412 *post-mortem* examinations were made upon the carcasses of bovine animals, of which seventeen were found diseased with pleuro-pneumonia.

The total expenses in Pennsylvania from December 1, 1888, to November 30, 1889, have been \$8,856.25, of which \$190 was paid for exposed cattle purchased for slaughter.

#### WORK IN MARYLAND.

The progress of the work in Maryland has been extremely satisfactory. With the active sympathy of the Governor and Attorney-General and the earnest co-operation of the Live Stock Sanitary Board the quarantine regulations have been enforced and the contagion has been eradicated. Only five herds affected with pleuro-pneumonia have been discovered in the last ten months, and at this writing (December 20) three months have elapsed since a case of the disease has occurred.

We have here one of the most striking illustrations that the history of the world has furnished of the possibility of exterminating this plague from the worst infected of cities and from the dairies of the adjoining country districts within a reasonable time by the application of proper sanitary measures. In the Old World it has always required many years under the regulations generally adopted to free a long infected district from the disease, while in some cities, as for example Paris, the work has gone on for years without appreciably diminishing the number of cases of disease which annually develop.

From December 1, 1888, to November 30, 1889, there were inspected in Maryland 10,904 herds, containing 79,606 head of cattle. Of this number 4,866 were re-examined by the non-professional assistants, and 10,534 were tagged with numbers and registered upon the books of the Bureau.

There were 18 new herds found infected with pleuro-pneumonia dur-



ing the year, and these herds contained 295 animals, 21 of which were pronounced diseased when the inspections were made. There were purchased for slaughter during the same time 72 affected cattle at a cost of \$2,254.27, an average of \$31.31 per head; also 311 exposed cattle at a cost of \$7,341.83, an average of \$23.61 per head.

It has been found necessary to disinfect 35 stables, stock-yards, and other premises during the year, and also to make *post-mortem* examinations upon the carcasses of 11,496 bovine animals, of which 76 were found diseased with pleuro-pneumonia.

The total expenses in Maryland from December 1, 1888, to November 30, 1889, have been \$57,488.96, of which \$9,596.10 was paid for cattle purchased for slaughter as either diseased or exposed.

#### THE WORK AS A WHOLE.

Including all the districts in which pleuro-pneumonia has existed, there were inspected from December 1, 1888, to November 30, 1889, a total of 36,531 herds of cattle, containing 329,006 animals. Of this number 183,126 were re-examined by the non professional assistants in addition to the veterinary inspections, and 56,854 were tagged with numbers and registered upon the books of the Bureau.

There were 222 new herds found affected with pleuro-pneumonia during the year, and these herds contained 4,273 animals, 351 of which were pronounced diseased when the inspections were made. There were purchased for slaughter during the same time 1,241 affected cattle, at a cost of \$33,123.32, an average of \$26.69 per head, also 3,845 exposed cattle at a cost of \$84,032.76, an average of \$21.86 per head.

It has been found necessary to disinfect 588 stables, stock-yards, or other premises, and also to make *post-mortem* examinations upon the carcasses of 54,520 bovine animals, of which 1,294 were found diseased with pleuro-pneumonia.

The total expenses of the pleuro-pneumonia work from December 1, 1888, to November 30, 1889, have been \$323,505.62, of which \$117,156.08 was paid for cattle purchased for slaughter as either diseased or exposed. The remainder constitutes the expense for inspection, disinfection, tagging, registering, and supervising the movement of cattle, of *post-mortem* examinations, and of all the various expenses necessary to insure the prompt discovery of this plague when it appears in any herd, and to prevent the further extension of the infection.

The following table gives a résumé of the pleuro-pneumonia work from December 1, 1888, to November 30, 1889, as given in detail above:

	New York.	New Jersey.	Pennsylvania.	Maryland.	Total.
Herds inspected .....	15,861	8,455	1,311	10,904	36,531
Cattle inspected .....	149,396	76,001	24,003	79,606	329,006
Cattle re-examined .....	137,688	39,287	1,285	4,866	183,126
Diseased cattle found by inspection .....	249	81	.....	21	351
Post-mortem examinations .....	15,375	14,242	13,412	11,491	54,520
Diseased carcasses found .....	1,012	189	17	76	1,294
Cattle tagged .....	33,135	11,672	1,513	10,534	56,854
New herds found affected .....	156	48	.....	18	222
Animals in affected herds .....	3,014	964	.....	295	4,273
Diseased cattle purchased .....	1,053	116	.....	72	1,241
Exposed cattle purchased .....	2,819	704	11	311	3,845
Premises disinfected .....	339	208	6	35	588

A résumé of expenditures in the pleuro-pneumonia work from December 1, 1888, to November 30, 1889, is made in the table which follows :

Item.	New York.	New Jersey.	Pennsylvania.	Maryland.	Total.
Salaries.....	\$81,863.02	\$36,600.58	\$7,630.53	\$37,712.99	\$163,087.12
Traveling expenses .....	11,746.78	10,629.92	614.83	8,903.87	31,895.40
Miscellaneous expenses .....	6,086.21	2,863.92	420.89	1,276.00	10,647.02
Affected cattle.....	28,210.05	2,659.00	.....	2,254.27	33,123.32
Exposed cattle.....	59,908.93	16,592.00	190.00	7,341.83	84,032.76
Average paid for affected cattle.....	26.79	22.92	.....	31.31	26.69
Average paid for exposed cattle.....	21.25	23.57	17.27	23.61	21.86

#### COMPARISON WITH THE PREVIOUS YEAR.

The progress accomplished by this work can only be estimated by comparing the number of new herds found affected during the year, and the total number of cases of pleuro-pneumonia found on *post-mortem* examination with similar data gathered from the reports of the preceding year. As the carcasses of all animals which die or are slaughtered from the quarantined districts are examined we have in the returns of the *post-mortem* examinations the total number of cases of pleuro-pneumonia which have developed.

The following table shows the number of new herds found affected, the number of *post-mortem* examinations that were made, and the number of carcasses found affected with pleuro-pneumonia at the *post-mortem* examinations for the years from December 1, 1887, to November 30, 1888, and from December 1, 1888, to November 30, 1889 :

States.	New herds affected.		Post-mortem examinations.		Carcasses affected with pleuro-pneumonia.	
	1888.	1889.	1888.	1889.	1888.	1889.
New York.....	347	156	15,826	15,375	2,374	1,012
New Jersey.....	216	48	6,892	14,242	536	189
Pennsylvania.....	23	.....	13,157	13,412	72	17
Maryland.....	96	18	6,165	11,491	596	76
Total.....	682	222	42,040	54,520	3,578	1,294

The above table shows that there were less than half as many new herds affected in New York during the last year as in the preceding year. There were also less than half as many diseased carcasses found on *post-mortem* examination in 1889 as in 1888, although the number of carcasses examined was nearly the same. In New Jersey there were only about one-fourth as many affected herds and about one-third as many affected animals, although a greatly increased number of carcasses was examined. In Pennsylvania and Maryland the reduction as shown by the table is even more marked, and is still greater than the figures indicate, as the malady has entirely disappeared from those States during the last quarter of the year.

#### REGULATIONS CONCERNING TEXAS FEVER.

The losses from the disease commonly known as Texas or splenic fever have for many years been very heavy. Generally the affected animals are export cattle or steers purchased from stock-yards for fall



and winter feeding. In both cases the disease is contracted from the stock-yards or from cars in which cattle from the infected district have been yarded or transported. Occasionally a few Southern cattle are mixed with a larger number of Northern animals and the whole bunch is sold for feeding. The result of this is that all the Northern cattle exposed in this manner contract the malady and most of them die.

A disease which can be so easily prevented by providing separate pens for the susceptible and dangerous cattle and by promptly cleaning the infected cars should not be allowed to remain a standing menace to the feeders of the country and an incubus upon the foreign trade in live cattle. To correct this evil the following order was issued :

U. S. DEPARTMENT OF AGRICULTURE,  
OFFICE OF THE SECRETARY,  
Washington, D. C., July 3, 1889.

*To the Managers and Agents of Railroad and  
Transportation Companies of the United States :*

In accordance with section 7 of an Act of Congress approved May 29, 1884, entitled "An act for the establishment of a Bureau of Animal Industry, to prevent the exportation of diseased cattle, and to provide means for the suppression and extirpation of pleuro-pneumonia and other contagious diseases among domestic animals," you are hereby notified that a contagious and infectious disease, known as splenetic or Texas fever, exists among cattle in the following described area of the United States :

All that country lying south and east of a line commencing at the northeasterly corner of the county of Crittenden, in the State of Arkansas, thence running in a northwesterly direction to the Osage Agency, in the Indian Territory, and thence running southwesterly to the Rio Grande River at the intersection of the southeasterly corner of Pecos County and the northeasterly corner of Presidio County, in the State of Texas.

No cattle are to be transported from said area to any portion of the United States north or west of the above-described lines except in accordance with the following regulations :

First. On unloading north or west of this line any cattle in course of transportation to be fed and watered on the way, the places where said cattle are to be so fed and watered shall be set apart and no other cattle shall be admitted into said places. Once a week from the date hereof until the 1st day of December, 1889, these watering and feeding places shall be thoroughly cleansed and disinfected.

Second. On unloading said cattle at their points of destination the regulations relating to the movement of Texas cattle, prescribed by the cattle sanitary officers of the State where unloaded, shall be carefully observed. The cars that have carried said stock shall be cleansed and disinfected before they are again used to transport, store, or shelter animals.

The cars used to transport such animals and the pens in which they are fed and watered shall be disinfected in the following manner :

(a) Remove all litter and manure. This litter and manure may be disinfected by mixing with lime, diluted sulphuric or carbolic acid, or, if not disinfected, it may be stored where no cattle can come in contact with it until after December 1.

(b) Wash the cars and the feeding and watering troughs with water until clean.

(c) Saturate the walls and floors of the cars and the fencing, troughs, and chutes of the pens with a solution made by dissolving 4 ounces of chloride of lime to each gallon of water.

The losses resulting yearly to owners of northern cattle by the contraction of this disease from contact with southern cattle, and through infected cars, and by means of the manure carried in unclean cars from place to place, have become a matter of grave and serious concern to the cattle industry of the United States. It is necessary, therefore, that this cattle industry should be protected as far as it is possible by the adoption of methods of disinfection in order to prevent the dissemination of this disease.

A rigid compliance with the above regulations will insure comparative safety to northern cattle and render it unnecessary to adopt a more stringent regulation, such as the absolute prohibition of the movement of Texas cattle, except for slaughter during the time of year that this disease is fatal.

Inspectors will be instructed to see that disinfection is properly done, and it is hoped that transportation companies will promptly put in operation the above methods.

Very respectfully,

J. M. RUSK,  
Secretary.



The effect of this regulation was very marked, but some infected cars were apparently used between the stock-yards of the interior and the ports at which cattle are shipped, as a number of lots became affected on the voyage and heavy losses resulted. To guard against a recurrence of such cases another circular was sent to the managers and agents of railroad and other transportation companies as follows:

U. S. DEPARTMENT OF AGRICULTURE,  
OFFICE OF THE SECRETARY,  
Washington, D. C., August 10, 1889.

*To the Managers and Agents of Railroad and  
Transportation Companies of the United States:*

In addition to my order of July 3, 1889, in regard to cleaning and disinfecting cars and pens which have been occupied by cattle liable to disseminate splenetic or Texas fever, I desire to impress upon you the importance of special precautions to prevent the infection of cattle which have been selected for exportation. The number of cattle shipped to Europe has rapidly increased and the trade is probably more promising than ever before. This relieves our market, gives new vigor to the cattle industry, and proportionally increases the business of transportation companies.

It is feared by shippers that some of these export cattle may become infected from cars which had carried southern cattle before the regulations of July 3, 1889, went into effect. A single shipment of animals thus affected might lead other countries to prohibit the entrance of our cattle and consequently ruin this trade, which is now of so much importance to the country. Not desiring at present to make a regulation requiring that all stock-cars should be cleaned and disinfected before cattle are loaded into them, I would earnestly request the managers of all transportation companies doing business between the interior and the sea-board to make provision whereby all cars, in which cattle for export are to be transported, shall be thoroughly cleaned and disinfected previous to loading, in accordance with the instructions contained in my order of July 3.

Arrangements have been made at New York by which one yard, accessible to all railroad companies, has been set apart exclusively for export cattle. I understand that one of the trunk lines between Chicago and New York has already at the request of shippers instructed its agents to furnish disinfected cars for such cattle and I trust all others will immediately give the export trade the benefit of similar precautions, thus avoiding the necessity for an extension of the order of July 3 to include all cars in which cattle are transported.

Very respectfully,

J. M. RUSK,  
Secretary.

The regulations were removed on November 1, as the danger for the year was believed to be over at that time. The following circular was sent as a notification to interested parties:

U. S. DEPARTMENT OF AGRICULTURE,  
OFFICE OF THE SECRETARY,  
Washington, D. C., November 1, 1889.

*To the Managers and Agents of Railroad and  
Transportation Companies of the United States:*

The order of July 3, 1889, prescribing regulations for the transportation of Texas and other southern cattle, and for the isolation, cleaning, and disinfection of pens which have been occupied by such cattle, is hereby revoked. It is believed that the danger from splenetic or Texas fever has passed for the present year.

Very respectfully,

J. M. RUSK,  
Secretary.

It is believed that by enforcing regulations similar to those contained in the order of July 3, from an earlier period of the year, this disease can be almost entirely prevented in all portions of the country, except the permanently infected district.

## GLANDERS.

No new regulations have been made during the year concerning the work for the suppression of glanders in the District of Columbia. A systematic inspection of all the horses in the District has not been attempted, but all reported and suspected cases have been investigated. While the disease has not been entirely eradicated, the results of the action so far taken is very marked and satisfactory. The discovery of a glandered horse on the streets of Washington, instead of being a common occurrence as it was formerly, has become very rare indeed. The number of horses killed during the year because affected with this disease was as follows:

December, 1888 .....	13	July .....	2
January, 1889 .....	21	August .....	1
February .....	1	September .....	2
March .....	8	October .....	2
April .....	18	November .....	1
May .....	8		
June .....	1	Total .....	78

## INVESTIGATIONS OF SWINE DISEASES.

The investigation of infectious animal diseases has been continued during the present year in spite of the great disadvantages under which the work in the laboratory is now laboring. The most attention has been given to diseases of swine. It was reported last year that the disease known throughout the country as hog cholera is not a single disease, but an indiscriminate mixture of two diseases, one of which has its chief seat in the bowels, the other in the lungs. It was also pointed out that in many herds both diseases appear at the same time. These facts have greatly complicated the rational study of swine diseases, and have necessitated going over the same ground a number of times. They have, however, been confirmed by no less an authority than Professor Welch, of the Johns Hopkins University, who has been carrying on independent investigations in this same field. During the present year, outbreaks which could in any way shed light upon the relation between the two diseases have again been subjected to careful examination. The conclusions of previous years have been fully sustained. The two diseases have been found intermingled and independent of each other, and it was impossible to say just which disease was doing the work of destruction until some investigations had been made. These necessitate careful and tedious laboratory methods, for which our facilities are quite inadequate at present, owing to want of space. During the year tests of some remedies for hog cholera have been made, and experiments to test the value of inoculation in the prevention of this disease are going on. This work is slow and tedious, inasmuch as a large number of factors must be taken into consideration, such as the season of the year, the virulence of the disease, the breed and age of the animals tested, and the method of testing. At present no statement can be made accurately defining the relative value of inoculation experiments in hog cholera. Even if we were able to do this it would still be necessary to map out by field work the distribution of the two diseases in our country, as the vaccine for one disease, if such can finally be obtained, will not protect against the other.

We have also in investigations of the past year met with swine diseases which can not be classed with either swine plague or hog cholera. It is probable that they are due to the exceptional meteorological condi-



tions of the year. While the problems, both remedial and preventive, are being attacked by the best methods which modern science and investigation can afford, we would say that the rules already formulated by the Bureau of Animal Industry in former publications, with reference to disinfection, cleanliness, etc., as means of prevention in hog cholera, are in general sufficient to keep the disease away, provided they are properly carried out.

#### TEXAS FEVER.

During the past summer careful investigations of this disease have been carried on in the field and laboratory, and they have thus far resulted in the discovery of an organism in the blood of the affected animals. This organism differs from the bacteria, which are now known to cause so many infectious diseases in man and the domesticated animals, and its discovery must be considered a result of the improvements in methods of research as well as of the advance in our general knowledge of disease. Owing to the fact that it is possible to study this disease in regions north of the permanently infected area during but two or three months of the year, we have been unable definitely to reach conclusions concerning the transmission of the disease and the infection of pastures by Southern cattle. It is to be hoped that another summer's work will clear up the mystery surrounding these phenomena. The discovery of what we believe to be the cause of the disease has made plain the true nature of the malady. It will no doubt shed a strong light upon other miasmatic diseases, such as malaria and yellow fever in man, and we hope it will bring forth measures to relieve that part of the cattle industry injured by the ravages of the disease.

Besides the investigations of swine diseases and Texas fever, work has been going on in the study of glanders, tuberculosis, anthrax, and lung disease in cattle. The difficulties connected with the investigations, in the present laboratory, of diseases of animals at the same time dangerous to man, have been dwelt upon in former letters. They have greatly restricted such work and have limited it chiefly to the diagnosis of disease in specimens sent to the laboratory by parties desiring information.

The study of the animal parasites of the domesticated animals likewise received constant attention during the past year. The economic importance of these parasites in causing obscure diseases among animals as well as in aggravating other diseases and thereby increasing the mortality, is becoming more and more established, as the diseases of animals are being more carefully studied as a whole. It is essential that we learn more about the obscure life of the organisms before any methods for their destruction can be formulated which will have the promised effect.



STATEMENTS SHOWING EXPENDITURES FROM THE APPROPRIATION  
FOR THE FISCAL YEAR ENDING JUNE 30, 1889, AND A LIST OF ALL  
PERSONS EMPLOYED DURING THE SAME PERIOD.

List of employes during the fiscal year ending June 30, 1889.

[\* And traveling expenses. † Promoted.]

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
Washington.					
D. E. Salmon .....	Chief of Bureau .....	May 31, 1884 .....	.....	.....	\$3, 000
Miles Fuller .....	Clerk of Bureau .....	July 1, 1884 .....	.....	.....	1, 500
Do .....	Assistant in Bureau .....	Jan. 1, 1889 .....	.....	.....	1, 600
A. M. Farrington .....	Assistant Chief of Bureau .....	Oct. 8, 1887 .....	.....	.....	2, 250
W. J. Cowing .....	Assistant in Bureau .....	July 1, 1886 .....	.....	.....	1, 800
Theobald Smith .....	Assistant in laboratory .....	July 1, 1886† .....	.....	.....	1, 800
Do .....	do .....	Feb. 1, 1889 .....	.....	.....	2, 000
F. L. Kilborne .....	Supt. experimental station .....	Aug. 15, 1885 .....	.....	.....	1, 600
Do .....	do .....	Feb. 1, 1889 .....	.....	.....	1, 800
Cooper Curtice .....	Assistant in laboratory .....	Mar. 1, 1887† .....	.....	.....	1, 600
P. L. Lyles .....	Assistant in Bureau .....	Jan. 1, 1888† .....	May 31, 1889 .....	.....	1, 600
Robert S. Forbes .....	do .....	Nov. 16, 1887 .....	.....	.....	1, 400
Do .....	do .....	Jan. 1, 1889 .....	.....	.....	1, 800
Edward B. Jones .....	do .....	Apr. 1, 1888† .....	.....	.....	1, 400
Do .....	Clerk of Bureau .....	Jan. 1, 1889 .....	.....	.....	1, 500
Israel W. Stone .....	Assistant in Bureau .....	June 1, 1889 .....	.....	.....	1, 600
V. A. Moore .....	Assistant in laboratory .....	Jan. 1, 1888† .....	.....	.....	1, 200
Mary Sullivan .....	Assistant in Bureau .....	Jan. 1, 1887† .....	.....	.....	1, 000
Wm. S. D. Haines .....	Assistant in laboratory .....	Dec. 19, 1888 .....	.....	.....	1, 000
Mary T. Dent .....	Assistant in bureau .....	Mar. 1, 1888† .....	.....	.....	900
Sophia A. Benter .....	do .....	July 6, 1888 .....	.....	.....	840
Do .....	do .....	Feb. 1, 1889 .....	May 19, 1889 .....	.....	900
William Alexander .....	Messenger .....	July 1, 1884 .....	.....	.....	720
R. P. Logan .....	do .....	Apr. 8, 1887 .....	Apr. 30, 1889 .....	.....	720
Mary N. Barnard .....	Assistant in laboratory .....	Feb. 27, 1888 .....	.....	.....	660
Do .....	do .....	Feb. 15, 1889 .....	.....	.....	720
Mary G. Marshall .....	Assistant in bureau .....	July 1, 1888 .....	.....	.....	660
Do .....	do .....	Feb. 15, 1889 .....	.....	.....	720
Wm. R. Scholl .....	Assistant in laboratory .....	Jan. 4, 1888 .....	July 15, 1888 .....	.....	600
Wm. E. Mundell .....	Laborer .....	June 15, 1887 .....	July 18, 1888 .....	.....	600
C. S. Meyers .....	do .....	July 24, 1888 .....	.....	.....	600
Wilson Carey .....	Messenger .....	Apr. 20, 1889 .....	.....	.....	720
Wm. H. Rhees .....	Laborer .....	Dec. 13, 1888 .....	.....	.....	720

AGENTS AND SPECIAL EMPLOYÉS.

H. M. Taylor .....	Agent .....	Apr. 15, 1885 .....	Mar. 31, 1889 .....	*\$10. 00 .....	.....
Wm. H. Catlin .....	do .....	Apr. 1, 1888 .....	Apr. 6, 1889 .....	*10. 00 .....	.....
Watson Pickrell .....	do .....	Apr. 1, 1889 .....	.....	*10. 00 .....	.....
W. Judson Smith .....	do .....	June 11, 1889 .....	.....	*10. 00 .....	.....
R. M. Bell .....	.....	Dec. 22, 1886 .....	Apr. 30, 1889 .....	.....	*1, 400
Thos. Bowhill .....	.....	Sept. 27, 1888 .....	Dec. 11, 1888 .....	*8. 00 .....	.....
T. J. Burrill .....	.....	Nov. 27, 1888 .....	Apr. 30, 1889 .....	*10. 00 .....	.....
B. Meade Bolton .....	.....	Dec. 8, 1888 .....	do .....	*10. 00 .....	.....
A. J. Chandler .....	.....	Feb. 11, 1889 .....	Feb. 21, 1889 .....	*8. 00 .....	.....
Samuel W. Campbell .....	.....	Apr. 26, 1889 .....	.....	.....	*1, 600
A. S. Mercer .....	.....	July 12, 1887 .....	Nov. 30, 1888 .....	.....	*1, 600
E. W. Perry .....	.....	Oct. 1, 1884 .....	July 26, 1888 .....	*8. 00 .....	.....
Paul Paquin .....	.....	Nov. 27, 1888 .....	Nov. 30, 1888 .....	*8. 00 .....	.....
Geo. W. Rust .....	.....	Dec. 10, 1886 .....	Aug. 21, 1888 .....	.....	*1, 800
Geo. S. Williamson .....	.....	Apr. 18, 1888 .....	Mar. 31, 1889 .....	.....	*1, 800
J. M. Wainright .....	.....	July 6, 1888 .....	June 30, 1889 .....	.....	*1, 800
E. O. Shakespeare .....	.....	Nov. 27, 1888 .....	Apr. 30, 1889 .....	*10. 00 .....	.....

Statements showing expenditures and number of persons employed, etc.—Continued.

INSPECTORS, DEPUTIES, CLERKS, ETC., BY STATES.

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
New York (a).					
James Law.....	Chief inspector.....	Nov. 23, 1887 <sup>1</sup>	Aug. 31, 1888	*\$20.00	.....
Wm. S. Devoe.....	do.....	Aug. 23, 1888 <sup>2</sup>		*10.00	.....
Do.....	do.....	Dec. 15, 1888	Apr. 30, 1889	*12.00	.....
A. K. Robertson.....	Inspector.....	Oct. 22, 1887			*\$1,600
Do.....	do.....	Sept. 17, 1888			*1,800
Do.....	Acting chief inspector.....	May 2, 1889			*1,800
James Anderson.....	Inspector.....	Nov. 30, 1887 <sup>3</sup>	Feb. 20, 1889		*1,600
John P. Bond.....	do.....	Nov. 30, 1887 <sup>3</sup>		*8.00	.....
Lucian T. Bell.....	do.....	July 18, 1887		*8.00	.....
J. A. Breakell.....	do.....	July 20, 1887	Sept. 30, 1888		*1,600
Henry W. Bath.....	do.....	Dec. 28, 1887	Nov. 15, 1888		*1,800
Roscoe R. Bell.....	do.....	Oct. 20, 1888			*1,600
John S. Candee.....	do.....	Apr. 13, 1888			*1,600
John J. Foy.....	do.....	Mar. 12, 1888	Sept. 30, 1888		*1,200
G. W. Gilbert.....	do.....	do.....	Apr. 6, 1889		*1,200
Thos. J. Herr.....	do.....	Nov. 30, 1887 <sup>3</sup>	Apr. 30, 1889	*8.00	.....
R. W. Hickman.....	do.....	Dec. 11, 1888 <sup>2</sup>			*1,600
J. C. Jackson.....	do.....	Mar. 7, 1887	Oct. 31, 1888		*1,600
Richard Kay.....	do.....	Jan. 21, 1889			*1,600
Ch. B. Michener.....	do.....	June 24, 1887		*8.00	.....
R. A. McLean.....	do.....	Mar. 1, 1887	Dec. 31, 1888	*8.00	.....
N. H. Paaren.....	do.....	Nov. 30, 1887 <sup>3</sup>		*8.00	.....
Chas. H. Perry.....	do.....	June 1, 1889			*1,400
William Rose.....	do.....	Dec. 27, 1887	Oct. 31, 1888		*1,800
J. Elmer Ryder.....	do.....	Aug. 15, 1887			*1,600
Henry S. Vanderhoff.....	do.....	Dec. 27, 1887			*1,600
Geo. G. Van Mater.....	do.....	June 1, 1889			*1,400
Sidney Shepherd.....	Clerk.....	Nov. 30, 1887 <sup>3</sup>	Sept. 15, 1888		1,500
Edward Devoe.....	do.....	Sept. 1, 1888			1,400
Do.....	do.....	Feb. 1, 1889			1,600
W. A. Willard.....	do.....	Dec. 16, 1888 <sup>2</sup>	May 20, 1889 <sup>4</sup>		*1,400
Daniel G. Hatch.....	do.....	May 20, 1889 <sup>2</sup>			1,400
Jas. B. Docharty.....	do.....	Apr. 14, 1888 <sup>1</sup>			1,200
C. W. Neilson.....	do.....	Dec. 19, 1887	May 18, 1889		*1,000
Fletcher B. Huyler.....	do.....	do.....	May 25, 1889		*1,000
Adolph Bevers.....	Clerk and deputy.....	Apr. 16, 1888			*1,000
R. H. Palmer.....	do.....	Mar. 10, 1888	Nov. 15, 1888		*1,000
Geo. J. Murphy.....	do.....	Nov. 28, 1887			*1,000
Jos. J. Hearne.....	Clerk.....	Dec. 23, 1887			*1,000
Moses L. Phillips.....	do.....	Sept. 1, 1888	Apr. 16, 1889		*1,000
W. W. Craig.....	do.....	Sept. 17, 1888			*1,000
Chas. A. Wilcox.....	do.....	May 7, 1889			*1,000
Chas. A. Forshaw.....	do.....	May 20, 1889			*1,000
Miles Adams.....	Deputy.....	Feb. 2, 1888			*1,000
Do.....	Appraiser.....	July 6, 1888			*1,200
Thos. G. Willson.....	Deputy.....	Apr. 16, 1888			*1,000
Do.....	Appraiser.....	July 6, 1888			*1,200
W. J. Hobday.....	Deputy.....	Aug. 15, 1887	Nov. 10, 1888		*1,000
William Ramsey.....	do.....	Dec. 19, 1887			*1,000
Townsend Wright.....	do.....	do.....	Nov. 15, 1888		*1,000
James Wall.....	do.....	do.....	do.....		*1,000
James McCarthy.....	do.....	do.....	do.....		*1,000
James W. Smith.....	do.....	do.....			*1,000
William Kavanagh.....	do.....	do.....			*1,000
E. D. Vaughn.....	do.....	do.....	Nov. 15, 1888		*1,000
James Thompson.....	do.....	do.....	do.....		*1,000
Ebenezer Bryant.....	do.....	do.....	do.....		*1,000
Thos. M. Farrell.....	do.....	Dec. 20, 1887			*1,000
Daniel Fox.....	do.....	do.....	May 18, 1889		*1,000
Henry Hesterberg.....	do.....	do.....	June 30, 1889		*1,000
Horatio Young.....	do.....	do.....	Nov. 15, 1888		*1,000
Albert Stern.....	do.....	do.....			*1,000
Charles Magrane.....	do.....	do.....	May 18, 1889		*1,000
T. W. Shute.....	do.....	do.....	Nov. 30, 1888		*1,000
Thos. J. Talbot.....	do.....	Dec. 24, 1887	Nov. 17, 1888		*1,000
Richard Murphy.....	do.....	do.....			*1,000

(a) *Disinfectors.*—The average number of laborers employed during the year was 17, averaging 22 days a month. Their compensation was \$2.25 per diem, except 2 men with teams, who were paid \$5.

<sup>1</sup> Transferred from Illinois and Maryland.

<sup>2</sup> Transferred from Pennsylvania.

<sup>3</sup> Transferred from Illinois.

<sup>4</sup> Transferred to New Jersey.



Statements showing expenditures and number of persons employed, etc.—Continued.

## INSPECTORS, DEPUTIES, CLERKS, ETC.—Continued.

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
New York—Cont'd.					
John C. Shandley	Deputy	Dec. 24, 1887	Nov. 17, 1888		*\$1,000
John McCloskey	do	do	Mar. 4, 1889		*1,000
George A. Woods	do	Dec. 27, 1887	Fel. 4, 1889		*1,000
William Bulmer	do	Dec. 31, 1887			*1,000
James Bagley	do	do	May 18, 1889		*1,000
Jeremiah Connors	do	do			*1,000
Emiel W. Kraft	do	Jan. 3, 1888			*1,000
Henry Bodes	do	Jan. 4, 1888			*1,000
Nicholas Conzet	do	Jan. 5, 1888	Nov. 17, 1888		*1,000
Wm. Hogan	do	do	Nov. 15, 1888		*1,000
Peter Dickerson	do	Jan. 18, 1888	do		*1,000
Robert J. Menair	do	do	Nov. 17, 1888		*1,000
Wm. P. Wallace	do	do	Nov. 15, 1888		*1,000
Wm. Sheehan	do	do	do		*1,000
Benj. Hants	do	do	do		*1,000
Wm. A. Clancy	do	do			*1,000
Wm. J. Hines	do	Jan. 20, 1888	Nov. 15, 1888		*1,000
Jas. F. O'Brien	do	Jan. 21, 1888	Dec. 8, 1888		*1,000
J. J. Kellum	do	do			*1,000
Jas. H. Smith	do	Jan. 24, 1888			*1,000
Chas. A. Gleason	do	Feb. 2, 1888	Nov. 15, 1888		*1,000
Benj. Snedeker	do	Feb. 11, 1888	Oct. 1, 1888		*1,000
Herman Ehrenspeck	do	Feb. 13, 1888	Nov. 15, 1888		*1,000
Thos. L. Motttram	do	do	do		*1,000
Joseph Acton	do	Mar. 10, 1888	do		*1,000
Joseph Fallon	do	do			*1,000
Frederick Drews	do	Apr. 16, 1888	Nov. 15, 1888		*1,000
Chas. Leopold	do	do	Dec. 13, 1888		*1,000
John E. Sharkey	do	May 7, 1888			*1,000
James Hyatt	do	do	Nov. 15, 1888		*1,000
Martin Campbell	do	do	Mar. 5, 1889		*1,000
Peter Brady	do	do	Jan. 5, 1889		*1,000
James W. Curran	do	May 8, 1888			*1,000
Noble H. Kirkland	do	July 6, 1888	Sept. 15, 1888		*1,000
Alex. Devlin, jr	do	do			*1,000
Elias Sloat	do	July 20, 1888	Nov. 15, 1888		*1,000
Augustus Mott	do	do	Nov. 17, 1888		*1,000
Chas. Hendrickson	do	do	do		*1,000
John J. Cunningham	do	do	Dec. 15, 1888		*1,000
John G. Lane	do	do	Nov. 15, 1888		*1,000
E. P. Golden	do	July 23, 1888	do		*1,000
Patrick J. McIntyre	do	July 25, 1888			*1,000
John Allen	do	do	Nov. 15, 1888		*1,000
P. Jerome Thomas	do	Oct. 1, 1888			*1,000
Rndolph Rannow	do	Oct. 25, 1888	Nov. 17, 1888		*1,000
L. G. Hubble	do	Dec. 1, 1888	Feb. 28, 1889		*1,000
Peter Geis	do	do			*1,000
James Smith	do	May 20, 1889			*1,000
O. P. Vandenberg	do	do			*1,000
Frank Ketcham	do	Mar. 1, 1888	Nov. 15, 1888	\$1.00	
Gustav L. Cohn	do	Mar. 10, 1888		1.00	
Wm. J. Watt	Superintendent of disinfectors	Jan. 18, 1888		5.00	
Thos. Coyle	Foreman disinfectors	Jan. 16, 1888			1,000
O. W. Green	do	Aug. 4, 1888	May 17, 1889		1,000
New Jersey. (a)					
William Dimond	Chief Inspector	Dec. 1, 1887	Apr. 15, 1889		*2,000
J. W. Hawk	do	Apr. 16, 1889			*2,000
W. W. Curry	Inspector	Mar. 10, 1888			*1,400
W. H. Cooper	do	Aug. 4, 1888	Feb. 20, 1889	*5.00	
do	do	May 1, 1889			*1,400
J. Gerth, jr.	do	Sept. 17, 1888	Feb. 20, 1889		*1,800
H. D. Gill	do	Feb. 6, 1888			*1,600
Julius Huelsen	do	Mar. 10, 1888			*1,400
Eldon L. Loblein	do	Dec. 8, 1887	Apr. 30, 1889	*5.00	
Wm. B. E. Miller	do	May 1, 1889			*1,600
Wm. H. Mook	do	Feb. 6, 1888	Apr. 30, 1889		*1,600
Mahlon G. Mattison	do	Aug. 4, 1888	Feb. 20, 1889	*5.00	

(a) Disinfectors.—The average number of laborers employed during the year was 19, averaging 16 days a month. Their compensation was \$2.25 per diem, except 2 men with teams, who were paid \$5.

<sup>1</sup> Transferred from Maryland.



Statements showing expenditures and number of persons employed, etc.—Continued.

INSPECTORS, DEPUTIES, CLERKS, ETC.—Continued.

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
New Jersey—Cont'd.					
H. W. Rowland	Inspector	Mar. 7, 1887			*\$1,400
Werner Runge	Deputy	May 6, 1889	June 14, 1889		*1,000
Do	Inspector	June 15, 1889			*1,400
E. A. Vreeland	do	Mar. 10, 1888	May 31, 1889		*1,400
A. C. Young	do	Aug. 18, 1887	Aug. 23, 1888 <sup>1</sup>		*1,600
W. A. Willard	Clerk	May 20, 1889 <sup>2</sup>			*1,400
B. D. Phillips	do	Feb. 1, 1888 <sup>3</sup>			1,000
Do	do	June 15, 1889			1,200
Seneca Barker	do	Feb. 20, 1888	Apr. 6, 1889		840
C. D. Noonan	do	Apr. 26, 1888			840
M. J. Coyle	Appraiser	Apr. 6, 1888	Nov. 30, 1888		*1,400
J. R. Chattin	do	do	Dec. 4, 1888		*1,400
Do	Deputy	Dec. 5, 1888	May 15, 1889		*1,000
Gustav Seide	do	Feb. 6, 1888	Nov. 17, 1888		*1,000
Peter Girth	do	do	Apr. 6, 1889		*1,000
Jas. J. Clarke	do	do	do		*1,000
Andrew Garling	do	do	May 15, 1889		*1,000
Thos. Lenihan	do	do	Nov. 17, 1888		*1,000
John Roberts	do	do	Apr. 6, 1889		*1,000
Simon Kelly	do	do			*1,000
John Mulqueeny	do	Feb. 27, 1888	Nov. 17, 1888		*1,000
E. F. Gorman	do	Apr. 6, 1888	Feb. 20, 1889		*1,000
Maurice Walsh	do	do	Nov. 17, 1888		*1,000
G. W. Garretson	do	do	May 15, 1889		*1,000
Aug. Kattenströth	do	Apr. 7, 1888	Oct. 26, 1888		*1,000
Patrick Carlin	do	do	Nov. 17, 1888		*1,000
Robert Quinlan	do	do	May 15, 1889		*1,000
R. R. Letts	do	Apr. 11, 1888			*1,000
Cornelius Teehan	do	do	Feb. 20, 1889		*1,000
Jas. S. Miller	do	Apr. 12, 1888	Nov. 17, 1888		*1,000
Garret Haley	do	Apr. 19, 1888	do		*1,000
Gustav Hauser	do	do	do		*1,000
John J. Smith	do	Dec. 10, 1888			*1,000
Charles McAnally	Superintendent of disinfectors	Apr. 21, 1888	Apr. 6, 1889	*\$3.00	
Melvin Doremus	Deputy	May 6, 1889			*1,000
James McGirr	do	do			*1,000
J. H. Phelan	do	do			*1,000
Joseph Locke	do	do			*1,000
Geo. C. Toffey	do	do			*1,000
Ira Kilburn	do	do			*1,000
James Cassey	do	May 10, 1889			*1,000
John Symes	do	do	June 15, 1889		*1,000
Frederick Blum	do	do			*1,000
William Taylor	do	do			*1,000
W. L. Ferguson	do	June 15, 1889			*1,000
B. S. Watson	do	do			*1,000
Thomas Crozier	do	do			*1,000
Harvey Ostrander	Deputy and superintendent of disinfectors.	Apr. 12, 1889 <sup>3</sup>			*1,000
Pennsylvania. (a)					
Wm. S. Devoe	Chief inspector	Apr. 1, 1888 <sup>1</sup>	Aug. 23, 1888 <sup>5</sup>	*8.00	
A. C. Young	do	Aug. 23, 1888 <sup>6</sup>	May 31, 1889		*2,000
Chas. E. Bridge	Inspector	Mar. 30, 1888	Dec. 15, 1888		*1,600
Francis Bridge	do	do	Feb. 14, 1889	*8.00	
R. W. Hickman	do	Mar. 31, 1888	Dec. 11, 1888 <sup>5</sup>		*1,600
Edgar Marlin	do	Mar. 30, 1888	Nov. 15, 1888		*1,600
W. B. Montgomery	do	Apr. 13, 1888	do		*1,600
William H. Rose	do	Oct. 26, 1887		*8.00	
James T. Ross	do	Apr. 4, 1888	Nov. 15, 1888		*1,600
R. G. Webster	do	do	Oct. 31, 1888		*1,600
Daniel G. Hatch	Clerk	Apr. 14, 1888 <sup>1</sup>	May 20, 1889 <sup>2</sup>		1,400
W. A. Willard	do	Apr. 11, 1888 <sup>3</sup>	Dec. 16, 1888 <sup>4</sup>		*1,400

(a) *Disinfectors.*—During July, August, and September 7 laborers were employed, averaging 23 days a month; in October 6 laborers, 1 day; in January, 16 laborers, averaging 2½ days. Their compensation was \$2 per diem, except 1 man with team, who was paid \$5.

<sup>1</sup> Transferred to Pennsylvania.

<sup>2</sup> Transferred from New York.

<sup>3</sup> Transferred from Pennsylvania.

<sup>4</sup> Transferred from Maryland.

<sup>5</sup> Transferred to New York.

<sup>6</sup> Transferred from New Jersey.

<sup>7</sup> Transferred from District of Columbia.

Statements showing expenditures and number of persons employed, etc.—Continued.

## INSPECTORS, DEPUTIES, CLERKS, ETC.—Continued.

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
Pennsylvania—Cont'd.					
C. Moffatt.....	Clerk.....	Apr. 20, 1888			\$540
Do.....	do.....	Aug. 15, 1888	Oct. 31, 1888		690
Charles Hartman.....	Deputy.....	Apr. 10, 1888	Dec. 15, 1888		*1,000
Michael J. Barry.....	do.....	do.....	Nov. 15, 1888		*1,000
Isaac Brown.....	do.....	do.....	Dec. 15, 1888		*1,000
George Carter.....	do.....	do.....	do.....		*1,000
W. H. Janney.....	do.....	do.....	Dec. 15, 1888		*1,000
Daniel Scull.....	do.....	do.....	Nov. 15, 1888		*1,000
William T. Fallon.....	do.....	Apr. 11, 1888	Dec. 15, 1888		*1,000
James McDermott.....	do.....	do.....	Nov. 15, 1888		*1,000
Jacob J. Eberhardt.....	do.....	do.....	Dec. 15, 1888		*1,000
Joseph M. Monks.....	do.....	do.....	Nov. 15, 1888		*1,000
John J. Owens.....	do.....	do.....	Nov. 10, 1888		*1,000
John J. Matthews.....	do.....	do.....	Nov. 15, 1888		*1,000
Timothy A. Maher.....	do.....	do.....	do.....		*1,000
George W. Been.....	do.....	do.....	do.....		*1,000
Henry Morse.....	do.....	do.....	Nov. 26, 1888		*1,000
John B. Herron.....	do.....	do.....	Dec. 15, 1888		*1,000
E. Santman.....	do.....	Apr. 12, 1888	Nov. 15, 1888		*1,000
John J. Treston.....	do.....	Apr. 20, 1888	do.....		*1,000
Charles A. Kelly.....	do.....	do.....	do.....		*1,000
Albert J. Fricka.....	do.....	do.....	do.....		*1,000
Joseph R. Tatem.....	do.....	Apr. 27, 1888	do.....		*1,000
Archie O. Drane.....	do.....	Apr. 21, 1888	do.....		*1,000
Thomas F. O'Brien.....	do.....	May 8, 1888	Dec. 15, 1888		*1,000
James McCarron.....	do.....	May 22, 1888	do.....		*1,000
James J. King.....	do.....	do.....	do.....		*1,000
Harvey Ostrander.....	Deputy and superintendent of disinfectors.	Apr. 19, 1888 <sup>1</sup>	Apr. 12, 1889 <sup>2</sup>		*1,000
Maryland. (a)					
George C. Faville.....	Chief inspector.....	Apr. 1, 1888 <sup>1</sup>		*\$10.00	
T. L. Armstrong.....	Inspector.....	June 25, 1889			*1,600
A. W. Clement.....	do.....	Dec. 1, 1887 <sup>1</sup>			*2,000
C. K. Dyer.....	do.....	Aug. 14, 1886	Apr. 30, 1889		*1,600
Albert Hassall.....	do.....	May 24, 1887			*1,600
D. R. Hoffman.....	do.....	Mar. 24, 1888			*1,200
W. H. Martenet.....	do.....	Oct. 23, 1886	June 30, 1889		*1,600
A. D. Melvin.....	do.....	Dec. 1, 1887 <sup>1</sup>			*2,000
F. W. Patterson.....	do.....	Sept. 14, 1886			*1,400
James F. Ryder.....	do.....	Apr. 17, 1888			*1,600
E. C. Schroeder.....	do.....	Aug. 15, 1887			*1,000
Do.....	do.....	Aug. 1, 1888			*1,200
W. H. Wray.....	do.....	Apr. 18, 1888		*8.00	
James A. Walrath.....	do.....	Nov. 1, 1887 <sup>1</sup>			*1,800
Do.....	do.....	Aug. 1, 1888			*2,000
J. B. Trull.....	Clerk.....	Apr. 1, 1888 <sup>1</sup>			1,200
Do.....	do.....	Aug. 1, 1888			1,400
Henry W. Hanna.....	do.....	June 1, 1887 <sup>1</sup>	July 7, 1888		1,000
J. F. Shipley.....	do.....	Dec. 2, 1887			1,000
Fred. Faville.....	do.....	July 1, 1888 <sup>1</sup>			1,000
T. Alex. Seth.....	do.....	May 2, 1888	Jan. 12, 1889		1,000
Isaac L. Ball.....	do.....	July 2, 1888			*1,000
Wm. S. Brooks.....	Appraiser.....	Feb. 1, 1888 <sup>1</sup>			*1,200
Do.....	do.....	Apr. 1, 1889		*5.00	
Wm. E. Zimmerman.....	do.....	Feb. 1, 1888 <sup>1</sup>			*1,200
Do.....	do.....	Apr. 1, 1889	May 18, 1889	*5.00	
Henry Schluderberg.....	do.....	June 1, 1889		*5.00	
Daniel Keller.....	Deputy.....	May 1, 1888 <sup>1</sup>	Apr. 10, 1889		*1,200
Jacob B. Hampsher.....	do.....	Oct. 25, 1887	Nov. 15, 1888		*1,000
David Riley.....	do.....	Oct. 26, 1887	Apr. 15, 1889		*1,000
Carroll Ensor.....	do.....	do.....	do.....		*1,000
Carvil R. Perdue.....	do.....	do.....	Apr. 10, 1889		*1,000
C. C. Prather.....	do.....	do.....	Nov. 15, 1888		*1,000
Henry C. Rohr.....	do.....	Nov. 1, 1887	July 31, 1888		*1,000

(a) *Disinfectors.*—The average number of laborers employed during July, August, September, and January was 8, averaging 13 days a month; during October, November, December, February, and March, 7, averaging 3 days a month; in April and June 8 men were employed 1 day. Their compensation was \$1.50 per diem, except 2 men with teams, who were paid \$3.

<sup>1</sup> Transferred from New York.

<sup>2</sup> Transferred to New Jersey.



Statements showing expenditures and number of persons employed, —Continued.

## INSPECTORS, DEPUTIES, CLERKS, ETC.—Continued.

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
Maryland—Cont'd.					
Louis A. McDaniel	Deputy	Nov. 11, 1887	Mar. 31, 1889		*\$1,000
L. G. Hubble	do	do	Nov. 30, 1888 <sup>1</sup>		*1,000
Geo. G. Latchford	do	do	May 5, 1889		*1,000
John F. Davis	do	do	Mar. 31, 1889		*1,000
Thos. A. Poulton	do	do	Nov. 15, 1888		*1,000
S. A. Mitchell	do	do	May 10, 1889		*1,000
Otho J. Gaver	do	do	Nov. 15, 1888		*1,000
Thos. B. Gatch	do	Nov. 25, 1887	Apr. 10, 1889		*1,000
Wm. O'Neal	do	do	Nov. 15, 1888		*1,000
Wm. Hardy	do	do	do		*1,000
John McDade	do	Dec. 2, 1887	do		*1,000
James Boyd	do	do	do		*1,000
Wm. H. Wade	do	Dec. 15, 1887	Nov. 15, 1888		*1,000
Thos. A. Hays	do	do	do		*1,000
John T. Parsons	do	Apr. 9, 1888	July 8, 1888		*1,000
V. F. Collier	do	July 16, 1888	do		*1,000
Frederick Gross	do	Apr. 11, 1889	do		*1,000
Cyrus M. Gardner	do	do	do		*1,000
David N. McCauley	do	do	do		*1,000
Jacob B. Bausman	do	Apr. 16, 1889	do		*1,000
R. C. Waters	do	May 5, 1889	do		*1,000
W. H. Snader	do	May 10, 1889	do		*1,000
David Holland	Superintendent of disinfectors	Nov. 3, 1887	do		1,000

<sup>1</sup> Transferred to New York.

Statement showing expenditures from the appropriation for the fiscal year ending June 30, 1889.

	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.	Total.	No. of animals.	
							Affected.	Exposed.
New York	\$101,033.26	\$15,113.80	\$7,477.59	\$40,450.65	\$67,940.41	\$232,015.71	1,416	3,011
New Jersey	41,764.46	10,395.19	2,816.53	5,653.50	20,696.50	81,326.18	255	880
Pennsylvania	22,962.74	2,428.96	1,359.62	231.00	1,679.00	28,661.32	15	68
Maryland	44,125.11	10,303.17	1,790.23	6,180.11	15,044.97	77,443.59	217	624
Scientific investigations—swine diseases	7,260.10	1,222.00	6,362.61	.....	.....	14,844.71	.....	.....
Scientific investigations—general	5,497.31	261.91	5,408.84	.....	.....	11,168.06	.....	.....
Collecting information—Texas	1,350.00	359.00	.....	.....	.....	1,709.00	.....	.....
Collecting information	5,246.70	2,710.96	29.23	.....	.....	7,986.89	.....	.....
Investigating reported diseases	1,422.32	1,136.96	15.75	.....	.....	2,575.03	.....	.....
Washington and miscellaneous	17,483.08	147.95	3,694.23	.....	.....	21,325.26	.....	.....
Total	248,145.08	44,079.90	28,954.63	52,515.26	105,360.88	479,055.75	1,903	4,583



Expended from the appropriation for 1888-'89, by States.

## NEW YORK.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1888.			Disbursed to Nov. 30, total \$99,156.02	\$44,356.74	\$7,103.54	\$3,364.96	\$17,275.74	\$27,055.04
Dec.			Salary for Nov.	114.20				
3	Edward Devoe	Clerk	do	97.80				
3	J. B. Docharty	do	do	81.60				
3	C. W. Neilson	do	do	81.60				
3	M. L. Phillips	do	do	81.60				
3	J. J. Hearne	do	do	81.60				
3	Geo. J. Murphy	do	do	81.60				
3	Adolph Bevers	do	do	81.60				
3	F. B. Huyler	do	do	81.60				
3	W. W. Craig	do	do	81.60				
3	P. B. Brady	do	do	81.60				
3	William Bulmer	do	Salary for Nov. (25 days)	67.93				
5	Daniel Fox	Deputy	Salary and expenses, Nov	81.60	30.00			
5	J. J. Cunningham	do	do	81.60	30.00			
5	Wm. Ramsey	do	do	81.60	30.00			
5	E. W. Kraft	do	Salary for Nov	81.60				
5	Geo. A. Woods	do	Salary and expenses, Nov. (26 days)	70.65	26.00			
5	G. L. Colin	do	Salary for Nov	81.60				
5	Janitor	do	do	30.00				
5	Chas. T. Alexander	Orange County	Services, Nov			8.00		
5	Jos. S. T. Earl	do	5 animals					257.00
5	do	Kings County	7 animals					1,143.00
5	Andrew J. Laton <i>et al</i>	do	5 animals					568.90
5	do	do	43 animals					5.15
5	John McDermott	New York County	23 animals					1,790.85
5	do	do	1 animal					
5	Phillip Mohan	do	27 animals					
5	C. H. Gilmore <i>et al</i>	Queens County	83 animals					
5	C. D. Rheinhart	do	Sheriff's services, Nov					
5	A. K. Robertson	do	Salary and expenses, Nov					
7	John E. Sharkey	Deputy	do	146.80	2.72			
7	James Bagley	do	do	81.60	12.42			
6	H. S. Vanderhoff	do	do	81.60	12.27			
6	J. M. Wainwright	do	do	130.40	45.00			
6	James Anderson	do	do	146.80	.64			
6	W. E. Kavanagh	do	do	130.40	12.27			
6	Albert Stern	Deputy	do	81.60	31.32			
6	Charles Magrane	do	do	81.60	11.87			
6	Jas. H. Smith	do	do	81.60	10.23			
6	J. Connors	do	do	81.60	6.76			
6		do	do	81.60	4.02			

*Expended from the appropriation for 1888-'89, by States.—Continued.*

NEW YORK.—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1888.								
Dec. 6	Chas. L. Leopold	Deputy	Salary and expenses, Nov.	\$81.60	\$3.32			
6	P. J. Thomas	do	do	81.60	1.32			
6	Jas. W. Smith	do	do	81.60	30.00			
6	Jas. W. Curran	do	do	81.60	30.00			
6	Alex. Devlin, jr.	do	Salary for Nov.	81.60				
7	Joseph Fallon	do	Salary and expenses, Nov.	81.60	9.87			
7	Wm. A. Clancy	do	do	81.60	8.32			
7	Henry Bodes	do	do	81.60	4.68			
7	M. Campbell	do	do	81.60	2.72			
7	T. W. Shute	do	do	81.60	1.52			
7	It. J. Menair	do	Salary and expenses, Nov. 1 to 17	46.20	1.62			
7	Miles Adams	Appraiser	Salary and expenses, Oct.	101.10	84.45			
7	do	do	Salary and expenses, Sept.	97.80	79.28			
7	N. H. Paaren	do	Salary and expenses, Nov.	216.00	10.11			
7	Richard Murphy	Deputy	do	81.60	8.32			
7	John McCloskey	do	do	81.60	6.72			
10	J. S. Candee	do	do	120.40	31.77			
10	John P. Bond	do	do	240.00	11.83			
10	Lucian T. Bell	do	do	208.00	45.00			
10	Roscoe R. Bell	do	Salary for Nov.	136.40				
10	J. J. Keltum	Deputy	Salary and expenses, Nov.	81.60	30.00			
10	Jas. F. O'Brien	do	Salary for Nov.	81.60				
10	P. J. McIntyre	do	do	81.60				
11	Wm. H. Catlin	do	do	280.00				
12	R. A. McLean	do	Salary and expenses, Oct.	216.00	145.86			
12	Thos. G. Wilson	Appraiser	Salary and expenses, Nov.	97.80	59.12	\$2.76		
12	Jas. Wall	Deputy	Salary and expenses, Nov. 1 to 15	40.76	7.42			
12	W. J. Watt, et al.	Disinfectors	Salaries, Nov.	1,493.70				
13	Miles Adams	Appraiser	Salary and expenses, Nov.	97.80	67.54			
13	Ch. B. Michener	do	do	240.00	30.42			
13	W. S. Devoe	do	do	290.00	8.02	2.87		
13	do	do	Disinfecting corps and miscellaneous expenses, Nov.		49.14	6.13		
13	Canda & Kane	New York	Lime			84.25		
13	W. J. Holiday	Deputy	Salary and expenses, Nov. 1 to 10	27.17	15.00			
13	Thos. M. Farrell	do	Salary for Nov.	81.60				
13	Hoole Manufacturing Company	New York	Tags			109.38		
14	Gleason & Bailey Manufacturing Company (limited).	New York	Rubber packers, etc.			2.35		
17	J. E. Ryder	Deputy	Salary and expenses, Nov.	130.40	19.65	.20		
17	Henry Hesterberg	do	do	81.60	6.36			

18	H. W. Bath	Deputy	Salary and expenses, Nov. 1 to 15	73.37	20.00				
19	J. J. Cunningham	do	Salary and expenses, Dec. 1 to 15	40.76	14.52				
20	Benj. Hants	do	Salary for Nov., 5 days	13.59					
20	Wm. J. Hines	do	Salary and expenses, Nov. 5 days	13.59	5.00				
20	Metropolitan Telephone and Telegraph Company	New York	Exchange rental, and toll service			17.80			
20	Martin B. Brown	do	Stationery						
20	Sutherland, Innes & Co	do	Bleaching-powder			18.40			
22	T. E. D. Power	do	Office rent, Aug. to Nov., inc.			173.43			
22	T. E. D. Power	do	Office rent, Aug. to Nov., inc.			431.00			
26	G. W. Gilbert	Deputy	Salary and expenses, Nov.	97.80	53.14				
26	G. W. Gilbert	Deputy	Salary and expenses, Dec. 1 to 13	35.33	1.02				
26	Chas. L. Leopold	New York	Stationery			11.95			
26	Blackwood & Douglas	do	Salary and expenses, Nov.	208.00	134.43				
28	R. A. McLean	do	do	240.00	25.81				
28	Thos. J. Herr	Deputy	Salary and expenses, Nov. 1 to 17	46.20	17.00				
28	J. C. Shandley	Kings County	11 animals						
28	Wm. E. Jones	do	20 animals						
28	do	do	12 animals						
28	Albert Cheshire	Queens County	1 animal						
28	Iber Kammann	do	Tags						
29	Herman Baumgarten	Washington	Total for month	8,704.75	1,345.82	1,068.52	1,453.08	4,514.90	
1889.	Emma Mettler	Queens County	1 animal	48.00	0.82				
Jan.	Chas. B. Michener	do	Salary and expenses, Dec			1.95			
4	T. E. D. Power	New York	Office rent, Dec			109.50			
4	J. B. Docharty	Clerk	Salary for Dec	101.10					
4	P. B. Brady	do	do	84.20					
4	Joseph J. Hearne	do	do	84.20					
4	C. W. Neilson	do	do	84.20					
4	Adolph Bevers	do	do	84.20					
4	Geo. J. Murphy	do	do	84.20					
4	M. L. Phillips	do	do	84.20					
4	P. J. McIntyre	do	do	84.20					
4	Chas. T. Alexander	Janitor	Services, Dec	8.00					
4	Roscoe R. Bell	do	Salary for Dec	134.80					
4	Edward Devoe	Clerk	do	117.90					
4	W. A. Willard	do	Salary Dec 16 to 31	60.83					
4	Daniel Fox	Deputy	Salary and expenses for Dec	84.20	30.00				
4	Thomas M. Farrell	do	do	84.20	30.00				
5	W. S. Devoe	do	do	288.00	1.67	3.80			
5	J. M. Wainwright	do	do	151.60	9.70				
5	Joseph Fallon	Deputy	do	84.20	7.87				
5	L. G. Hubble	do	do	84.20	7.63				
5	Richard Murphy	do	do	84.20	7.12				
5	Wm. A. Clancy	do	do	84.20	7.12				
5	Charles Magrane	do	do	84.20	3.37				
5	W. J. Watt et al	Disinfectors	Salaries Dec	1,224.65					
5	W. W. Craig	Clerk	Salary for Dec	84.20					
5	Jas. W. Smith	Deputy	Salary and expenses, December	84.20	30.00				
5	F. B. Huyler	Clerk	Salary for December	84.20					
5	Geo. A. Woods	Deputy	do	84.20					



*Expended from the appropriation for 1888-'89, by States.—Continued.*

NEW YORK.—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Jan. 5	Gustav L. Cohn	Deputy	Salary for December	\$31.00				
7	Wm. H. Catlin		Salary and expenses, December	250.00	\$9.70			\$288.00
7	Martin Van Sise	Kings County	14 animals					
7	do	do	4 animals				\$80.50	94.92
7	Henry Crane	do	do					
7	do	do	2 animals				47.00	
7	Albert E. Allen	do	1 animal				15.00	18.35
7	do	do	do					
7	Michael Subzbach	do	4 animals				122.40	
7	do	do	11 animals					
7	do	do	2 animals				38.00	255.00
7	Joseph Ruppert	do	2 animals					
7	do	do	5 animals					162.89
7	do	do	2 animals					44.51
7	Christian Lees	do	1 animal				15.00	
7	do	do	do				15.00	
7	Andrew Phillips	do	do					24.65
7	do	do	do					
7	Franklyn B. Smith	do	8 animals				170.78	
7	do	do	11 animals					260.00
7	Nathaniel C. Smith	do	7 animals				173.00	
7	do	do	10 animals					283.00
7	Hugh Kenney	do	14 animals					301.31
7	do	do	10 animals				244.00	
7	do	do	3 animals				87.22	
7	Adeline B. Smith	do	11 animals					233.00
7	do	do	10 animals					152.00
7	James Smith	do	8 animals				178.00	
7	do	do	1 animal					30.00
7	Louise Leeshmann	Queens County	do					
7	do	do	3 animals				25.00	49.91
7	John McBride	do	1 animal				15.00	
7	do	do	25 animals					294.50
7	Richard Honeyey	do	24 animals				595.00	
7	do	do	6 animals					139.69
7	Anna Wehmann	do	19 animals				541.00	
7	do	do	7 animals					177.00
7	Chas. E. Smith	do	5 animals				156.00	
7	do	do	2 animals				30.50	
7	Henry Bramwell	do	21 animals					325.50
7	do	do	1 animal				15.00	
7	William Meckert	New York County	6 animals					155.00
7	do	do	2 animals				48.95	
7	Mrs. Kate Sullivan	do	do					

7	Catherine Martin.	do	1 animal						44.00	30.09
7	Bridget Barry	do	6 animals							136.15
7	John P. Bond	do	Salary and expenses, December							
10	N. H. Paaren	do	do							
10	H. S. Vanderhoff	do	do							
10	Thos. G. Willson	Appraiser	do					\$3.96		
10	J. S. Candee	do	do							
10	Miles Adams	Appraiser	do							
10	G. W. Gilbert	do	do							
10	J. Elmer Ryder	do	do							
10	James Anderson	do	do							
10	William Bulmer	Deputy	do							
10	John J. Kelum	do	do							
10	James W. Curran	do	do							
10	Wm. E. Kavanagh	do	Salary and expenses, December (29 days)							
10	Albert Stern	do	Salary and expenses December							
10	Peter Geis	do	do							
10	J. E. Sharkey	do	do							
10	James Bagley	do	do							
10	John McCloskey	do	do							
10	James H. Smith	do	do							
10	Henry Bodes	do	do							
10	Jeremiah Connors	do	do							
10	Martin Campbell	do	Salary for December							
10	Wm. Ramsey	do	do							
10	P. J. Thomas	do	do							
10	Canda & Kane.	New York.	Salary and expenses, December (29 days)							
10	Metropolitan Telephone and Telegraph Company.	do	Lime					52.50		
11	Lucian T. Bell	New York	Exchange rental and toll service					17.40		
11	Martin B. Brown	do	Salary and expenses, December							
11	Jas. F. O'Brien	Deputy	Record books					58.00		
12	R. A. McLean	do	Salary for Dec. 1 to 8					21.74		
12	A. K. Robertson	do	Salary and expenses for December					163.91		
12	Alex. Devlin, jr.	do	Salary and expenses for December (30 days)					146.71		
12	E. W. Kraft	Deputy	do					81.48		
14	Joseph W. Youngs	do	Salary and expenses, December					75.56		
14	do	Orange County	35 animals							1,030.00
14	do	do	10 animals							381.00
14	Patterson Bros	New York	Locks, chains, etc							
14	Thomas J. Herr	do	Salary and expenses for December					136.55		
16	Michael Given	Kings County	Salary and expenses for December					26.48		
16	do	do	6 animals							168.40
16	Thos. Collins	do	1 animal							15.00
16	do	do	do							
16	Wm. Bradshaw	do	5 animals							112.50
16	do	do	1 animal							26.10
16	do	do	2 animals							
16	Lewis Misner	do	1 animal							51.00
16	do	do	do							40.00
16	George Schwab	do	do							21.56
16	do	do	2 animals							42.49
16	James Dayton	Queens County	12 animals							180.49

*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
an. 16	Frederick Nurge	Queens County	1 animal				\$15.00	
16	Michael Derleth.	do	do				11.50	
16	do	do	5 animals					\$117.50
16	Margareth K rug	do	1 animal				15.00	
16	do	do	3 animals					73.12
16	John Smith	New York County.	4 animals					
16	do	do	3 animals				73.00	
16	E. S. Wakeman	Orange County	do					61.66
16	do	do	5 animals					115.00
16	Thos. B. Millspaugh	do	23 animals				109.00	
18	do	do	27 animals				763.00	
18	Richard Bull	do	33 animals					687.00
18	do	do	1 animal				15.00	1,072.75
18	Abram Letts	do	11 animals				278.50	
18	do	do	14 animals					368.00
18	E. J. Byrnes	do	15 animals				389.00	
18	do	do	6 animals					120.00
18	K. D. Bull	do	1 animal					50.00
18	Chas. R. Bull	do	do					15.00
18	John Genett	Queens County	18 animals					340.00
18	do	do	8 animals				161.00	
21	R. W. Hickman	do	Salary and expenses, Dec. 12 to 31.	\$86.97	\$34.62			
21	W. S. Devoe	do	Expenses disinfecting corps, December.		27.12			
21	do	do	Miscellaneous and disinfecting corps expenses, December.		112.99	\$17.89		
22	Philip Kennedy	New York County.	4 animals					67.00
22	do	do	2 animals				37.00	
22	John Thompson	do	6 animals					87.00
22	do	do	1 animal				15.00	
22	Richard Conway	do	5 animals					99.52
22	do	do	1 animal				20.00	
22	Thos. F. Ryan	Kings County	26 animals				404.20	460.40
22	do	do	15 animals				30.00	
22	Nicholas Loft	Queens County	2 animals					
22	Clarence S. Knight	Orange County	19 animals				225.00	493.00
22	do	do	10 animals					
24	Henry Hesterberg	Deputy	Salary and expenses, December.	84.20	4.12			
24	Blackwood & Douglas	New York	Stationary			39.80		
24	P. E. Brady	Clerk	Salary for Jan. 1 to 5	13.89				
24	Thos. Christensen	Kings County	1 animal					27.35
24	do	do	do				15.00	



24	Chas. H. Ryan	do	30 animals				640.50
24	John Buffett	do	13 animals				339.60
24	Chas. H. Ryan	do	19 animals				
24	John Buffett	do	11 animals			443.25	
24	Jesse M. Hewlett	do	24 animals			380.40	
24	do	do	16 animals				758.60
24	do	do	9 animals			633.00	
24	John Bambauer	Queens County	2 animals			37.70	82.30
24	do	do	Bleaching powder			156.85	
28	Sutherland, Innes & Co.	New York	7 animals			222.00	
29	Timothy Carney	Queens County	11 animals				
29	do	do	7 animals				61.42
29	John Muir	do	6 animals				103.40
29	do	do	7 animals			176.40	
29	Catherine McBride	do	7 animals				122.44
29	Jacob S. J. Jones	do	1 animal			40.72	
29	Fordland A. Reinbelder	Queens County	1 animal			15.00	
29	do	do	4 animals				10.00
29	Wm. Gartner	do	1 animal			20.00	
29	E. Y. Hubbs	do	do				7.28
29	Julia A. Carroll	Kings County	do			15.00	
Total for month				\$28,798.53			
				7,841.37	1,208.03	598.40	11,427.43
Feb.	W. J. Watt, et al.	Disinfectors	Salaries, Jan.	1,211.20			
5	Edward Devoe	Clerk	Salary for Jan.	120.60			
6	W. A. Willard	do	do	120.60			
6	Jas. W. Smith	Deputy	Salary and expenses for Jan.	86.10	30.00		
6	William Bulmer	do	do	86.10	30.00		
6	Jas. B. Docharty	Clerk	Salary for Jan.	103.30			
6	M. L. Phillips	do	do	86.10			
6	Jos. J. Hearne	do	do	86.10			
6	Adolph Bevers	do	do	86.10			
6	C. W. Neilson	do	do	86.10			
6	W. W. Craig	do	do	86.10			
6	F. B. Huyler	do	do	86.10			
6	T. E. D. Power	do	do	86.10			
9	Canda & Kane	New York	Office rent for Jan.			111.90	
9	Chas. T. Alexander	do	Time			116.00	
11	N. H. Paaren	Janitor	Services, Jan.	8.00			
11	H. S. Vanderhoff	do	Salary and expenses, Jan.	224.00	17.64		
11	Jas. Anderson	do	do	137.80	45.00		
11	James Bagley	Deputy	do	137.80	12.57		
11	John McCloskey	do	do	86.10	12.57		
11	Joseph Fallon	do	do	86.10	10.52		
11	Jas. H. Smith	do	do	86.10	8.87		
11	J. M. Wainwright	do	do	86.10	6.24		
11	Roscoe R. Bell	do	Salary for Jan.	155.00			
11	Thos. M. Farrell	Deputy	do	137.80			
11	Jas. W. Gurrin	do	Salary and expenses, Jan.	86.10	30.00		
11	do	do	do	86.10	30.00		
11	Daniel Fox	do	do	86.10	30.00		
11	Wm. E. Kavanagh	do	do	86.10	30.00		
11	J. J. Kellum	do	Salary and expenses, Jan. (24 days)	66.67	23.22		

*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Feb. 11	P. J. McIntyre.....	Deputy.	Salary for Jan.....	\$86.10				
11	Wm. Ramsey.....	do	do	86.10				
11	P. J. Thomas.....	do	do	86.10				
11	Geo. A. Woods.....	do	do	86.10				
11	M. Campbell.....	do	do	86.10				
11	Geo. J. Murphy.....	do	do	86.10				
11	E. W. Kraft.....	do	do	86.10				
11	G. L. Cohn.....	do	do	31.00				
11	Ch. B. Michener.....	do	Salary and expenses, Jan	248.00	\$12.82			
11	A. K. Robertson.....	do	do	155.00	2.52			
11	J. E. Ruder.....	do	do	137.80	18.40			
11	J. S. Candee.....	do	do	137.80	18.27			
11	Charles Magrath.....	Deputy	do	86.10	26.89			
11	Albert Stern.....	do	do	86.10	17.48			
11	J. E. Sharkey.....	do	do	86.10	13.97			
11	Wm. A. Clancy.....	do	do	86.10	5.72			
11	Richard Murphy.....	do	do	86.10	5.07			
11	H. Hesterberg.....	do	do	86.10	5.00			
11	Henry Bodes.....	do	do	86.10	4.97			
11	Alex. Devlin, jr.....	do	do	86.10	4.11			
11	L. G. Hubble.....	do	do	86.10	4.02			
11	J. Connors.....	do	do	86.10	3.93			
11	Peter Feis.....	do	do	86.10	1.24			
11	Richard Kay.....	do	Salary and expenses, Jan. 22 to 31	44.44	2.32			
11	Wm. H. Catlin.....	do	Salary and expenses, Jan	260.00	21.00			
11	W. S. Devoe.....	do	do	336.00	3.54	\$3.17		
11	Jno. P. Bond.....	do	do	216.00	68.32			
11	Thos. J. Herr.....	do	do	248.00	23.57			
19	Miles Adams.....	Appraiser	do	103.30	83.14			
19	R. W. Hickman.....	do	do	137.80	33.28			
19	Thos. G. Willson.....	Appraiser	do	103.30	66.70	4.08		
19	G. W. Gilbert.....	do	Salary and expenses, 30 days	100.00	54.13			
19	L. F. Bell.....	do	Salary and expenses, Jan	216.00	45.00			
19	Blackwood & Douglas.....	New York	Stationery		47.25			
19	The Metropolitan Telephone and Telegraph Company.	do	Exchange rental and toll service.		20.90			
19	Wm. R. Jenkins.....	do	Blank books		6.00			
19	Martin B. Brown.....	do	Stationery		2.10			
20	A. W. Munfort.....	Kings County	33 animals				\$1,011.80	
20	do	do	do					\$299.20
20	A. F. Bedell.....	do	5 animals				150.00	

[illegible]



*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Mar.	William Grogan.....	New York County.....	5 animals				\$95.00	
2	Jacob Hecht.....	do.....	1 animal				35.00	
2	Abraham H. Sonn.....	Queens County.....	60 animals					\$1,240.00
2	do.....	do.....	4 animals				86.00	
2	do.....	do.....	1 animal				15.00	
2	James McGann.....	do.....	8 animals					
2	do.....	do.....	6 animals				108.00	
2	do.....	do.....	3 animals				53.00	
2	Nicholas Enners.....	do.....	8 animals					
2	do.....	do.....	Salaries for Feb.	\$1,183.60				
5	W. J. Watt <i>et al.</i> .....	Disinfectors.....	Salary and expenses, Feb.	77.80	\$30.00			
5	Daniel Fox.....	Deputy.....	Salary for Feb.	77.80				
5	Adolph Bevers.....	Clerk.....	do.....	108.80				
5	W. A. Willard.....	do.....	Salary and expenses, Feb.	124.40	11.37	\$0.20		
8	J. Elmer Ryder.....	Deputy.....	do.....	77.80	11.38			
8	James Bagley.....	do.....	do.....	77.80	9.27			
8	Richard Murphy.....	do.....	do.....	77.80	8.52			
8	Jeremiah Connors.....	do.....	do.....	77.80	8.52			
8	Wm. A. Clancy.....	do.....	do.....	77.80	7.53			
8	William Ramsey.....	do.....	do.....	77.80	3.82			
8	Henry Bodes.....	do.....	do.....	77.80	10.24			
8	Albert Stern.....	do.....	Salary and expenses, Feb., (21 days).	58.33				
8	H. S. Vanderhof.....	do.....	Salary and expenses, Feb.	124.40	45.00			
8	Wm. Bulmer.....	Deputy.....	do.....	77.80	30.00			
8	Wm. E. Kavanagh.....	do.....	do.....	77.80	30.00			
8	James W. Smith.....	do.....	do.....	77.80	30.00			
8	James W. Curran.....	do.....	do.....	77.80	30.00			
8	Alex. Devlin, jr.....	do.....	Salary for Feb.	77.80				
8	Geo. J. Murphy.....	do.....	do.....	77.80				
8	P. Jerome Thomas.....	do.....	do.....	77.80				
8	Martin Campbell.....	do.....	do.....	77.80				
8	Gustav L. Cohn.....	do.....	do.....	28.00				
8	Sutherland, Innes & Co.....	New York.....	Bleaching powder.....			144.45		
9	Peter Geis.....	Deputy.....	Salary and expenses, Feb.	77.80	4.12			
9	Thomas M. Farrell.....	do.....	do.....	77.80	4.72			
9	John McCloskey.....	do.....	do.....	77.80	11.17			
9	R. W. Hickman.....	do.....	do.....	124.40	11.95			
9	J. Mayhew Wainwright.....	do.....	do.....	140.00	1.04			
9	A. K. Robertson.....	do.....	do.....	140.00	4.20			
9	P. J. McIntyre.....	Deputy.....	do.....	77.80	2.98			
9	Roscoe R. Bell.....	do.....	do.....	124.40	45.00			
12	Henry Hesterberg.....	Deputy.....	do.....	77.80	5.84			

12	Emiel W. Kraft	do	77.80	3.43			
12	Miles Adams	Appraiser	93.40	67.30			
12	Thos. G. Wilson	do	93.40	57.06	4.20		
12	Chas. Magrane	Deputy	77.80	20.78			
12	James H. Smith	do	77.80	7.96			
12	N. H. Paaren	do	200.00	41.02			
12	Thos. J. Herr	do	216.00	21.11			
12	Lucian T. Bell	do	192.00	45.00			
12	John A. Affleck	Stationery		127.90			
12	The Metropolitan Telephone and Telegraph Company	Exchange rental, and toll service		19.05			
12	Chas. T. Alexander	Services, Feb	8.00				
12	Frank and J. G. Jenkins, Jr.	Office rent, Feb.		25.00			
12	The Gupta-Percha and Rubber Manufacturing Company	Hose		12.00			
12	Gleason & Bailey Manufacturing Company (Ltd).	Master-pump		1.50			
12	John Bingham	Ink		1.30			
13	W. S. Devore	Salary and expenses, Feb	300.00	14.60			
13	G. W. Gilbert	do	93.40	56.63			
13	J. S. Candee	do	124.40	10.02			
13	John E. Sharkey	do	77.80	11.97			
13	Canda & Kane	Lime		78.75			
13	Equitable Gas Light Company	Charges, Nov. 7 to Dec. 5.		4.51			
13	do	Charges, Dec. 5 to Jan. 5		4.00			
13	Patterson Bros	Chain		4.80			
15	Joseph Fallon	Salary and expenses, Feb	77.80	8.42			
15	William H. Cadin	Salary for Feb	230.00				
16	Jno. P. Bond	Salary and expenses, Feb	192.00	80.28	.20		
16	Richard Kay	Salary and expenses, Feb. 1 to 5	22.22	1.16			
16	John J. Kellum	Salary and expenses, Feb	77.80	30.00			
20	Sarah Parker	30 animals					659.60
20	do	9 animals				280.70	
20	do	5 animals				76.45	
20	G. A. Bennett	20 animals				325.00	
20	do	24 animals				616.05	
20	Samuel C. Seaman	17 animals				220.45	
20	Joseph Lang	2 animals				68.00	
20	do	2 animals				23.48	
20	Catherine Fey	4 animals				65.37	49.92
20	do	3 animals					50.00
20	Julia Dugan	1 animal				20.00	
20	Jacob Hecht	1 animal				35.00	15.00
20	Isaac Frank	1 animal				35.00	
20	Herman Stickfort	1 animal				35.00	
20	Ed. M. Davis	1 animal				15.00	
20	do	1 animal				30.00	
20	James H. Bull	1 animal				30.00	
20	Geo. G. Woodhull	1 animal				15.00	
20	Hiram Bellinger	1 animal				30.00	
20	Geo. M. Bitchelder	Salary and expenses, Feb	224.00	36.56	1.65		
21	Ch. B. Michener	31 animals					753.00
23	Frank L. Mott						



*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Mar. 23	Frank L. Mott.....	Kings County	9 animals					
27	Samuel C. Seaman.....	do	39 animals				\$283.00	\$715.85
27	W. S. Devoe.....		Miscellaneous and disinfecting corps expenses, Feb.		\$120.37	\$27.00		
27	Fred. Wieners.....	Queens County	1 animal				25.00	
27	Ferdinand A. Reinheimer.....	do	5 animals					33.76
27	John Rosenthal.....	do	12 animals					60.00
27	do	do	8 animals				347.00	
27	Catherine Martin.....	Kings County	1 animal				76.00	
27	Sidney Higbie.....	do	5 animals				15.00	
27	do	do	20 animals					82.00
27	Thos. Mulligan.....	do	8 animals				236.35	370.00
27	Geo. G. Woodhull.....	Orange County	1 animal				45.00	22.98
27	Simon Loeb.....	New York County	2 animals				45.96	
			Total for month.....	\$17,944.80	1,002.18	458.70	3,653.36	5,920.21
Apr. 3	W. J. Watt <i>et al</i> .....	Disinfectors	Salaries, Mar	\$91.70				
4	Ch. B. Michener.....	do	Salary and expenses, Mar	248.00	11.17	2.25		
4	J. S. Candee.....	do	do	137.80	43.41			
4	J. M. Wainwright.....	do	do	155.00	2.88			
4	J. E. Sharkey.....	Deputy	do	86.10	13.47			
4	Thos. M. Farrell.....	do	do	86.10	5.97			
4	P. J. McIntyre.....	do	do	86.10	2.83			
4	Wm. Ramsey.....	do	do	86.10	1.34			
4	Charles Magrane.....	do	do	86.10				
4	Edward Devoe.....	Clerk	Salary for Mar	137.80				
4	Roscoe E. Bell.....	do	Salary and expenses, Mar	137.80	45.00			
4	W. A. Willard.....	Clerk	Salary for Mar	120.60				
4	Wm. E. Kavanagh.....	Deputy	Salary and expenses, Mar	86.10	30.00			
4	Wm. Bulmer.....	do	do	86.10	30.00			
4	Jas. W. Curran.....	do	do	86.10	30.00			
4	Daniel Fox.....	do	do	86.10	30.00			
4	Jas. B. Docharty.....	Clerk	Salary for Mar	103.30				
4	Jos. J. Hearne.....	do	do	86.10				
4	Geo. J. Murphy.....	do	do	86.10				
4	W. W. Craig.....	do	do	86.10				
4	M. L. Phillips.....	Clerk	Salary for Mar	86.10				
4	F. B. Huyler.....	do	do	86.10				



4	C. W. Neilson	do	do	86.10	.....	.....	.....
4	Adolph Bevers	do	do	86.10	.....	.....	.....
4	George Canaday	Ulster County	1 animal	.....	.....	45.00	.....
4	Gustav L. Cohn	Deputy	Salary for Mar	31.00	.....	.....	.....
4	C. T. Alexander	Janitor	Services, Mar	8.00	.....	.....	88
4	Equitable Gaslight Company	New York	Charges, Feb. 5 to Mar. 5	.....	.....	3.00	.....
4	do	do	Charges, Jan. 5 to Feb. 5	.....	.....	.....	.....
4	do	do	Salary and expenses, Mar	.....	.....	.....	.....
5	E. W. Hickman	Deputy	do	137.80	34.72	.....	.....
5	Henry Bodes	do	do	86.10	4.52	.....	.....
5	Joseph Fallon	do	do	86.10	7.99	.....	.....
5	Emiel W. Kraft	do	do	86.10	4.72	.....	.....
5	Jas. Bagley	do	do	86.10	13.77	.....	.....
5	Albert Stern	do	do	86.10	16.34	.....	.....
5	John P. Bond	do	do	208.00	79.84	1.01	.....
5	Alex. Devlin, jr	Deputy	do	86.10	1.22	.....	.....
9	Jas. H. Smith	do	do	86.10	8.36	.....	.....
9	A. K. Robertson	do	do	155.00	10.32	.....	.....
9	Peter Geis	Deputy	do	86.10	6.36	.....	.....
9	G. W. Gilbert	do	do	103.30	9.63	.....	.....
9	N. H. Paaren	do	do	208.00	30.00	.....	.....
9	J. J. Kellum	Deputy	do	86.10	30.00	.....	.....
9	Jas. W. Smith	do	do	86.10	30.00	.....	.....
9	H. S. Vanderhoff	do	do	137.80	45.00	.....	.....
9	Lucian T. Bell	do	do	208.00	45.00	.....	.....
9	J. M. Bacon	Brooklyn	Coal	.....	6.00	.....	.....
9	Geo. I. Hunter	do	Window shades	.....	18.00	.....	.....
9	Frank and J. G. Jenkins, jr	do	Office rent, Mar	.....	25.00	.....	.....
9	John A. Affleck	New York	Stationery	.....	48.00	.....	.....
10	Thos. G. Willson	Appraiser	Salary and expenses, Mar	.....	3.24	.....	.....
10	W. S. Devroe	do	do	103.30	55.16	.....	.....
10	Thos. J. Heir	Deputy	do	324.00	44.83	.....	.....
10	Henry Hesterberg	do	do	208.00	15.92	.....	.....
11	Miles Adams	Appraiser	do	86.10	6.20	.....	.....
11	Canda & Kane	New York	Lime	103.30	73.88	.....	.....
11	Bogardus, Ellaby & Ells worth	do	Hog rings	.....	52.50	.....	.....
12	J. Elmer Ryder	Deputy	Salary and expenses, Mar	137.80	23.07	.....	.....
12	P. J. Thomas	Deputy	Salary for Mar	86.10	.....	.....	.....
12	Henry J. Leach	Brooklyn	Store, etc	.....	24.05	.....	.....
12	The Metropolitan Telephone and Telegraph Company	New York	Exchange rental and toll service	.....	18.50	.....	.....
12	Patterson Bros	do	Chain, etc	.....	10.35	.....	.....
13	W. H. Catlin	do	Salary and expenses, Mar	260.00	27.37	.....	.....
13	do	do	Salary for Apr. 1 to 6	60.00	.....	.....	.....
15	T. E. D. Power	New York	Office rent, Feb	.....	101.20	.....	.....
5	do	do	Office rent, Mar	.....	56.00	.....	.....
5	do	do	Miscellaneous and disinfecting corps expenses, Mar	.....	19.89	.....	.....
6	W. S. Devroe	do	do	.....	54.66	.....	.....
7	Richard Murphy	Deputy	Salary and expenses, Mar	86.10	10.22	.....	.....
7	Wm. A. Clancy	do	do	86.10	9.42	.....	.....
7	Jeremiah Connors	do	do	86.10	9.22	.....	.....
17	D. E. Salmon	do	Expenses, Dec. 14 to 17	.....	26.50	.....	.....

*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1888.								
Apr. 19	Chas. R. Bull	Orange County	25 animals					\$649.25
19	do	do	9 animals				\$273.50	
19	Laurence Keegan	do	1 animal				35.00	
19	Alex. C. Sutherland	do	do				25.00	
19	William Sutherland	do	do				25.00	
19	Laurence Fitzpatrick	Kings County	6 animals				126.00	
19	do	do	9 animals					176.00
19	Henry Tyson	do	2 animals				44.24	
19	do	do	5 animals					107.07
19	Julia Heyer	do	1 animal				40.00	
19	do	do	5 animals					90.40
19	do	do	1 animal				21.97	
19	Alex. Dolatowski	do	1 animal					38.94
19	do	do	2 animals				15.00	
19	Phillip Aron	do	1 animal				40.00	
19	Gatherine Campbell	New York County	do					335.55
19	Robert H. Austin	Queens County	21 animals				496.45	
19	do	do	15 animals					338.15
19	Adam Köller	do	19 animals				356.70	
19	do	do	12 animals				270.09	
19	John Sahr	do	9 animals					415.00
19	do	do	22 animals					374.85
19	Louis Hamel	do	21 animals				88.00	
19	do	do	3 animals					222.22
19	Michael S. Hines	do	9 animals				219.00	
19	do	do	8 animals				34.00	
19	John Baabe	do	1 animal					217.30
19	do	do	12 animals					183.80
19	John Wilhelm	do	10 animals				15.00	
19	do	do	1 animal					65.73
19	William Van Nostrand	do	2 animals				129.00	
19	do	do	4 animals					
19	M. L. Phillips	Clerk	Salary for Apr. 1 to 15	\$41.21				
25	John McClosky	Deputy	Salary and expenses Mar. 1 to 4	11.11	\$1.37			
25	Martin Campbell	do	Salary for Mar. 1 to 5	13.89				
			Total for month.....	\$14,044.55				
			Salary and expenses, April	7,100.61	1,020.52	\$410.40	2,298.86	3,214.16
May 1	W. S. Devoe		Miscellaneous and disinfecting corps, expenses April.	348.00	18.02	.30		
1	do		Salary for April.		11.51	11.06		
1	Edward Devoe	Clerk	Salary for April	131.90				

1	W. A. Willard	do	do	115.40	98.90	.....
1	Jas. B. Docharty	do	do	82.40	82.40	.....
1	Jos. J. Hearne	do	do	82.40	82.40	.....
1	F. B. Hayler	do	do	82.40	82.40	.....
1	W. W. Craig	do	do	82.40	82.40	.....
1	C. W. Neilson	do	do	82.40	82.40	.....
1	Adolph Bevers	do	do	82.40	82.40	.....
1	Janitor	do	do	8.00	8.00	.....
1	C. T. Alexander	do	do	1.56	1.56	.....
4	Charles Magrane	Deputy	Salary and expenses, April	82.40	2.62	.....
4	Emiel W. Kraft	do	do	82.40	4.02	.....
4	Henry Bodes	do	do	82.40	4.67	.....
4	William A. Clancy	do	do	82.40	5.12	.....
4	Thomas M. Farrell	do	do	82.40	7.12	.....
4	William Ramsey	do	do	82.40	12.82	.....
4	Albert Stern	do	do	131.90	12.62	.....
4	Richard Kay	do	do	131.90	45.00	.....
4	Roscoe R. Bell	do	do	131.90	45.00	.....
4	H. S. Vanderhoff	do	do	131.90	30.00	.....
4	William Bulmer	Deputy	do	82.40	30.00	.....
4	Jas. W. Curran	do	do	82.40	30.00	.....
4	Wm. E. Kavanagh	do	do	82.40	30.00	.....
4	Jas. W. Smith	do	do	82.40	30.00	.....
4	P. J. Thomas	do	Salary for April	82.40	82.40	.....
4	Alex. Devlin, Jr	do	do	82.40	82.40	.....
4	Geo. J. Murphy	do	do	82.40	82.40	.....
4	P. J. McIntyre	do	do	717.30	717.30	.....
4	W. J. Watt et al.	do	do	30.00	30.00	.....
4	G. L. Cohn	Disinfectors	Salaries, April	12.17	12.17	.....
6	N. H. Paeren	Deputy	Salary for April	6.36	6.36	.....
6	A. K. Robertson	do	Salary and expenses, April	148.30	1.46	.....
6	J. M. Wainwright	do	do	131.90	6.97	.....
6	R. W. Hickman	do	do	82.40	7.80	.....
6	Jas. H. Smith	Deputy	do	82.40	4.47	.....
6	Jeremiah Connors	do	do	82.40	2.57	.....
6	Richard Murphy	do	do	27.95	27.95	.....
6	John A. Afleck	New York	Stationery	216.00	16.69	.....
7	C. B. Michener	do	Salary and expenses, April (27 days)	131.90	36.97	.....
7	J. Elmer Ryder	do	do	98.90	54.72	.....
7	Thos. G. Willson	Appraiser	do	98.90	69.92	.....
7	Miles Adams	do	do	98.90	98.90	.....
7	Casper Bechtold	Queens County	9 animals	3 animals	74.70	.....
7	do	do	7 animals	7 animals	127.00	.....
7	J. W. Layton	do	do	do	280.00	.....
7	do	do	13 animals	8 animals	325.00	.....
7	Motha Blanke	do	do	do	2,532.00	.....
7	do	do	120 animals	120 animals	1,805.05	.....
7	Abraham H. Sonn	do	do	do	130.68	.....
7	do	do	10 animals	10 animals	95.00	.....
7	Robert Evans	do	do	do	33.40	.....
7	do	do	93 animals	5 animals	.....	.....
7	Elizabeth Bedell	do	17 animals	17 animals	.....	.....
7	do	Kings County	1 animal	1 animal	.....	.....



*Expended from the appropriation for 1888-'89, by States.—Continued.*

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
May 7	Stephen L. Decker	Kings County	12 animals				\$45.00	\$209.50
7	do	do	1 animal				15.00	
7	Charles Dreyer	do	23 animals					452.05
7	do	do	14 animals					304.10
7	Patrick Dorsey	do	5 animals				161.15	
7	do	do	17 animals				400.85	261.45
7	George Steblin	do	11 animals					224.77
7	do	do	do					
7	Jane H. Mills	do	Salary and expenses, April	\$82.40	\$4.88			
8	Henry Hesterberg	Deputy	do	82.40	5.32			
8	Joseph Fallon	do	do	82.40	11.33			
8	James Bagley	do	do	82.40	12.72			
8	John E. Sharkey	do	do	131.90	34.47	\$0.30		
8	J. S. Candee	do	do	208.00	17.42			
8	Thos. J. Herr	do	do	208.00	55.43			
8	John P. Bond	do	do	82.40	30.00			
8	John J. Kellum	Deputy	do		2.75			
8	F. Klingmann	New York	Carpenter's work		25.00			
10	Frank and J. G. Jenkins, jr.	Brooklyn	Office rent, April		5.38			
10	J. M. Bacon	do	Fuel		18.20			
10	The Metropolitan Telephone and Telegraph Company.	New York	Exchange rental, and toll service.					
13	Peter Gels	Deputy	Salary and expenses, April	82.40	6.78			
13	G. W. Gilbert	do	Salary and expenses, April 1 to 6	19.78	16.92			
13	Sutherland, Lent	Orange County	2 animals			65.00		
13	Canda & Kane	New York	Lime			52.50		
13	Lucian T. Bell	do	do	192.00	45.00			
13	Daniel Fox	Deputy	Salary and expenses, April	71.43	30.00			
15	The B. & M. Sign Letter Company.	New York	Salary and expenses, April (26 days)					
20	Elbert Van Sise	Kings County	27 animals					497.95
20	do	do	2 animals				32.85	
20	E. C. Ash	do	11 animals				298.00	
20	do	do	3 animals					74.22
20	James B. Wheeler	do	1 animal				29.77	
20	John Clancy	do	do				15.00	
20	Samuel Strauss	do	do				13.77	
20	Jacob Strauss	do	do				13.95	
20	George Canaday	Ulster County	2 animals				40.00	
20	G. H. Hubbs	Queens County	15 animals				433.00	
20	do	do	38 animals					640.00

20	S. O. Bedell	do	1 animal				31.74		
20	John Sahr	do	do				15.00		
20	Patrick McCabe	New York County	do				50.00		
20	T. M. Stewart	do	do						17.12
20	Ed. M. Davis	Orange County	do						
20	M. B. Edsall	do	do				40.00		
20	John Bingham	New York	Stationery				30.00		
21	Herman Baumgarten	Washington	Tags				26.55		
21	Mason Chapin & Co	New York	Bleaching powder				170.00		
21	Daniel Fox	Deputy	Salary and expenses, May 1 to 18			49.45	146.15		
21	James Bagley	do	do			17.41			
21	Charles Magrane	do	Salary for May 1 to 18			49.45	2.88		
22	C. W. Neilson	Clerk	do			49.45			
22	O. W. Green	Disinfecter	Salary and expenses, May 1 to 17			46.70	2.22		
25	Cornelius D. Van Brunt	Queens County	14 animals						
25	do	do	1 animal						367.37
25	August Geiser	do	do				15.00		
25	do	do	do				20.65		
25	John J. Houston	Orange County	10 animals						
25	Peter Joyce	Kings County	1 animal				40.00		
25	F. B. Huyler	Clerk	do				15.00		
27	Harvey G. Ward	New York	Salary for May 1 to 25			68.68	8.00		
27	New York and New Jersey Telephone Company	Brooklyn	Typewriting, etc				33.75		
31			Exchange rental						
			Total for month		\$18,895.27	6,553.29	804.96	544.38	2,801.51
									8,193.13
June	Richard Kay	do	Salary and expenses, May			136.20	16.28		
6	R. W. Hickman	do	do			136.20	3.02		
6	William Bulmer	Deputy	do			85.20	31.52		
6	John E. Sharkey	do	do			85.20	13.22		
6	Joseph Fallon	do	do			85.20	6.04		
6	Alex. Devlin, Jr.	do	do			85.20	5.58		
6	E. W. Kraft	do	do			85.20	4.18		
6	O. P. Vandenberg	do	Salary and expenses, May 20 to 31			32.97	1.42		
6	Jno. P. Bond	do	Salary and expenses for May			216.00	63.80		
6	W. J. Watt et al	Disinfectors	Salaries for May			743.20			
6	T. E. D. Power	New York	Office rent, Apr and May				108.90		
6	Chas. A. Forshaw	Clerk	Salary for May 20 to 31			32.97			
7	Roscoe R. Bell	do	Salary and expenses, May			136.20	45.00		
7	J. M. Wainwright	do	Salary for May			153.40			
7	Edward Devoe	Clerk	do			136.20			
7	Wm. E. Kavanagh	Deputy	Salary and expenses, May			85.20	30.00		
7	James B. Smith	do	do			85.20	30.00		
7	James B. Docharty	Clerk	Salary for May			102.20			
7	Patrick J. McIntyre	Deputy	do			85.20			
7	George J. Murphy	do	do			85.20			
7	P. Jerome Thomas	Deputy	do			85.20			
7	W. W. Crair	Clerk	do			85.20			
7	Joseph J. Hearne	do	do			85.20			
7	Adolph Bevers	do	do			85.20			
7	James Smith	Deputy	Salary for May, 20 to 31			32.97			
7	Charles T. Alexander	Janitor	Services, May			8.00			

*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
June 10	N. H. Paaren.....	Clerk.....	Salary and expenses, May.....	\$208.00	\$9.98			
10	W. A. Willard.....	Deputy.....	Salary for May 1 to 19.....	73.08	30.00			
10	James W. Curran.....	do.....	Salary and expenses, May.....	85.20	30.00			
10	John J. Kellum.....	do.....	do.....	85.20	16.18			
10	Albert Stern.....	do.....	do.....	85.20	7.93			
10	William Ramsey.....	do.....	do.....	85.20	6.17			
10	Thomas M. Farrell.....	do.....	do.....	85.20	5.87			
10	William A. Clancy.....	do.....	do.....	85.20	5.07			
10	Richard Murphy.....	do.....	do.....	85.20	4.74			
10	Henry Hesterberg.....	do.....	do.....	85.20	4.27			
10	Henry Bodes.....	do.....	do.....	85.20	4.12			
10	Jeremiah Connors.....	do.....	do.....	248.00	14.83	\$1.80		
11	Ch. B. Michener.....	Deputy.....	do.....	85.20	7.86			
11	Jas. H. Smith.....	do.....	do.....	85.20	7.96			
11	Peter Gels.....	do.....	do.....	208.00	45.00			
11	Lucian T. Fell.....	do.....	do.....	46.12				
11	Daniel G. Hatch.....	Clerk.....	Salary for May 20 to 31.....	31.00		25.00		
11	Gustav L. Cohn.....	Deputy.....	Salary for May.....					
11	Frank & J. G. Jenkins, jr.....	Brooklyn.....	Office rent, May.....	136.20	58.92			
12	Henry S. Vanderhoff.....	do.....	Salary and expenses, May.....	136.20	34.53			
12	J. S. Candee.....	do.....	do.....	102.20	64.23	1.32		
12	Thos. G. Willson.....	Appraiser.....	do.....	153.40	9.26	52.50		
12	A. K. Robertson.....	New York.....	Lime.....			6.75		
12	Canda & Kane.....	do.....	Plunger packings.....					
12	Gleason & Bailey Manufacturing Company.....	do.....	Salary and expenses, May.....	102.20	74.49			
15	Miles Adams.....	Appraiser.....	do.....	136.20	33.82			
15	J. Elmer Ryder.....	Clerk.....	Salary and expenses, May 7 to 31.....	68.68	8.72			
15	Chas. A. Wilcox.....	do.....	Disinfecting corps and miscellaneous expenses, May.....		17.33	28.45		
15	A. K. Robertson.....	New York.....	Stationery.....			130.75		
15	John Bingham.....	do.....	Exchange rental and toll service.....			16.80		
17	Metropolitan Telephone and Telegraph Company.....	Kings County.....	18 animals.....					\$264.40
17	Richard Kelly.....	do.....	16.....				\$357.60	
17	do.....		Total for month.....	5,645.79	751.34	372.27	357.60	264.40



## Supplemental.

July	3	Joseph Fallon	Deputy	Salary and expenses, June	82.40	5.64	82.40
	3	Albert Stern	do	do	82.40	14.62	82.40
	3	R. W. Hickman	do	do	131.90	2.62	131.90
	3	W. J. Watt et al.	Disinfectors	Salaries, June	669.90		669.90
	3	Chas. A. Forsnew	Clerk	Salary for June	82.40		82.40
	3	Joseph J. Hearne	do	do	82.40		82.40
	3	W. W. Craig	do	do	82.40		82.40
	3	James Smith	Deputy	do	82.40		82.40
	3	P. Jerome Thomas	do	do	82.40		82.40
	3	George J. Murphy	Deputy	do	82.40		82.40
	3	Adolph Beyers	Clerk	do	82.40		82.40
	3	Jas. B. Docharty	do	do	98.50		98.50
	3	William Bulmer	Deputy	Salary and expenses, June	131.90	30.00	131.90
	3	Edward Dwyer	Clerk	Salary for June	200.00	82.35	200.00
	5	Geo. P. Bond	Deputy	Salary and expenses, June	82.40	6.62	82.40
	5	Thos. M. Farrell	do	do	82.40		82.40
	5	Wm. E. Kavanagh	do	do	82.40		82.40
	5	Jas. W. Smith	do	do	82.40		82.40
	5	Alex. Devlin, Jr.	do	Salary for June	82.40		82.40
	5	Gustav L. Cohn	do	do	30.00		30.00
	5	Peter Geis	do	Salary and expenses, June	7.62		7.62
	8	Henry Bodes	do	do	82.40	3.87	82.40
	8	James W. Curran	do	do	82.40	30.00	82.40
	8	Chas. A. Wilcox	Clerk	Salary for June	82.40		82.40
	8	P. J. McIntyre	Deputy	do	131.90		131.90
	8	Roscoe R. Bell	do	Salary and expenses, June	240.00	45.00	240.00
	9	Ch. B. Michener	do	do	131.90	13.29	131.90
	9	J. S. Candee	do	do	131.90	19.72	131.90
	9	Lucian T. Bell	do	do	100.00	45.00	100.00
	9	H. S. Vanderhoff	do	do	131.90	49.81	131.90
	9	Richard Kay	do	do	131.90	18.21	131.90
	9	Charles H. Perry	do	do	115.40	9.61	115.40
	9	Geo. G. Van Mater	do	do	115.40	9.10	115.40
	9	John J. Kellum	Deputy	do	30.00		30.00
	9	John E. Sharkey	do	do	82.40		82.40
	9	O. P. Vandenberg	do	do	82.40	16.04	82.40
	9	William Ramsey	do	do	82.40	11.32	82.40
	9	James H. Smith	do	do	82.40	10.77	82.40
	9	Henry Hesterberg	do	do	82.40	8.37	82.40
	9	Emiel W. Kraft	do	do	82.40	7.06	82.40
	9	Wm. A. Clancy	do	do	82.40	6.30	82.40
	9	Richard Murphy	do	do	82.40	5.97	82.40
	9	Jeremiah Connors	do	do	82.40	5.97	82.40
	9	Daniel G. Hatch	do	do	82.40	4.67	82.40
	9	John Bingham	Clerk	do	115.40	4.10	115.40
	11	Frank and J. G. Jenkins, jr.	Stationery	Stationery	23.45		23.45
	11	N. H. Paaron	Brooklyn	Office rent, June	25.00		25.00
	12	A. K. Robertson	do	Salary and expenses, June	200.00	6.77	200.00
	12	W. J.udson Smith	do	do	148.30	8.27	148.30
	13	Miles Adams	Appraiser	Salary and expenses, June 18 to 29	110.00	61.15	110.00
	13			Salary and expenses, June	98.90	71.47	98.90

*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed
<i>Supplemental—Continued.</i>								
1889,								
July 13	H. D. Gill	Kings County	Salary and expenses, June	\$131.90	\$54.84			
13	Mary Rosina McManus	do	3 animals				\$67.00	\$177.57
13	do	do	7 animals			\$2.75		
13	Bogardus, Ellaby & Ellisworth,	New York	Hog ringers					
13	B. Newman	Janitor	Services, June	6.00				
17	J. M. Wainwright	Brooklyn	Salary and expenses, June	148.30	3.52	36.45		
17	New York and New Jersey Telephone Company.		Exchange rental, and tolls					
19	J. Elmer Ryder	Appraiser	Salary and expenses, June	131.90	14.92			
19	Thomas G. Willson	Kings County	do	98.90	57.47			273.00
25	Andrew J. Laton	do	17 animals				97.00	102.00
25	do	do	5 animals					
25	Albert Lichtenheldt	Queens County	6 animals				49.50	
25	do	do	4 animals			2.75		
25	Metropolitan Telephone and Telegraph Company.	New York	Toll service, May					
29	D. E. Salomon		Expenses May 8, 9, and 10, and June 20, 21, and 22		42.05			
Aug. 3	Thomas McGee	Kings County	31 animals				609.74	656.51
3	do	do	23 animals					370.30
3	Lonis Gimpel	do	18 animals				175.40	
3	do	do	8 animals				255.35	40.00
3	John Doyle	New York County	1 animal					493.15
3	Mrs. Maria McArdle	Queens County	11 animals				52.00	
3	do	do	23 animals					607.70
3	W. H. H. Combes	do	3 animals					271.30
3	do	do	29 animals					
3	John Sharkey	do	12 animals				54.50	
3	do	do	3 animals					
6	A. K. Robertson		Disinfecting corps, and miscellaneous expenses, June		40.04	18.76		
12	Glenison & Bailey Manufacturing Company.	New York	Magto nozzles			1.00		
14	Abram Winters	do	Moving office furniture			22.32		
17	The Gutta Percha and Rubber Manufacturing Company.	do	Rubber packing			1.43		
17	do	do	Hose, etc.			32.23		
20	Moses Sonnenberg	Fairfield County, Conn.	1 animal					15.00

26	Stanton Bressee and A. C. Abrams.	Albany County	do	15.00
26	Uriah Crosson.	Orange County	do	20.00
26	John Mangin	do	do	20.00
26	Peter G. Lewis	do	do	25.00
26	Ellen Welsh	Kings County	do	14.51
26	do	do	2 animals	43.00
26	John Brady	do	15 animals	197.25
26	do	do	3 animals	83.95
26	Michael Keenan	do	9 animals	185.46
26	do	do	do	190.54
26	Frederick Feldscher	Queens County	3 animals	69.34
26	Honore Dion	do	6 animals	152.16
26	do	do	12 animals	218.14
26	Paul Feldner	do	3 animals	97.69
26	George A. Van Sise	do	14 animals	287.68
26	do	do	17 animals	251.32
26	Henry Rushmore	do	10 animals	312.56
26	do	do	16 animals	389.24
26	Canda & Kane.	New York	Line	52.50
26	John Ziegler	Queens County	4 animals	104.40
11	do	do	3 animals	88.70
Total supplemental				2,555.15
Grand total				4,548.11
				67,940.41

## NEW JERSEY.

			Disbursed to Nov. 30.....	\$37,258.11	18,569.05	3,754.15	1,046.91	3,812.50	10,075.50
1883.	A. M. Kattenstroth.....	Deputy	Salary and expenses, Oct. 1 to 26.....		70.05	21.60			
Dec. 10	Sutherland, Innes & Co.....	New York	Bleaching-powder				54.20		
10	A. S. Barnes & Co.....	do	Stationery				32.45		
10	F. H. Spengeman.....	Jersey City	Office rent, Nov.				50.00		
10	J. A. Lawson.....	do	Wire-cutters, etc				6.63		
11	E. F. Gorman.....	Deputy	Salary and expenses, Nov.		81.60	58.50			
11	G. W. Garretson.....	do	do						
11	M. J. Coyle.....	Appraiser	do		114.60	47.95			
11	E. L. Loblein.....	do	do		114.20	3.90			
11	M. G. Mattison.....	do	Salary and expenses, Nov., 16 days.		80.00	32.87			
11	Julius Huebel.....	do	Salary and expenses, Nov., 11 days.		55.00	23.70			
11	H. D. Gill.....	do	Salary and expenses, Nov.		114.20	8.96			
11	Cornelius Treban.....	Deputy	do		130.40	51.20			
11	Robert Quinlan.....	do	do		81.60	31.15			
11	Simon Kelly.....	do	do		81.50	31.00			
11	R. E. Letts.....	do	do		81.60	19.90			
11	Peter Girth.....	do	do		81.60	11.29			
11			do		81.60	6.85			



*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1888.								
Dec. 11	J. J. Clarke.	Deputy	Salary and expenses, Nov.	\$31.60	\$6.25			
11	Seneca Barker.	Clerk.	Salary for Nov.	68.40				
11	C. D. Noonan.	do	do	68.40				
11	Gustav Hauser	Deputy	Salary and expenses, Nov. 1 to 17.	46.20	4.05			
11	Garret Haley	do	do	46.20	3.40			
11	Peter Taylor	Janitor	Services, Nov.			\$5.00		
12	Charles McAnally, et al.	Disinfectors	Salaries, Nov.	1,104.75				
12	J. Gerth, jr.	do	Salary and expenses, Nov.	146.80	55.65			
12	W. H. Cooper	do	Salary and expenses, Nov. (22 days)	110.00	75.59			
12	John Roberts	Deputy	do	81.60	52.10			
12	J. R. Chatin.	Appraiser	do	114.20	16.85			
12	Andrew Garling	Deputy	do	81.60	30.00			
12	G. Seide.	do	Salary and expenses, Nov. 1 to 17.	46.20	4.20			
12	Thos. Lenihan.	do	do	46.20	3.45			
14	H. W. Rowland	do	Salary and expenses, Nov.	114.20	45.00			
14	W. Dimond	do	do	163.00	110.30			
14	B. D. Phillips	Clerk	Salary for Nov.	81.60				
14	W. W. Curry	do	Salary and expenses, Nov.	114.20	45.00			
14	E. A. Vreeland	do	do	114.20	45.00			
14	W. H. Mook	do	do	130.40	45.00	.75		
14	Gleason & Bailey Manu- facturing Company.	New York	Pump-handle					
18	Wm. Dimond	do	Expenses disinfecting corps, Nov.		14.65			
26	Chas. K. Long	Jersey City	Lumber, etc.			7.21		
28	Joseph Well	Hudson County	1 animal					\$25.00
28	Thos. Scanlin et al.	Hudson County	2 animals					\$40.00
28	do	do	10 animals					260.00
			Total for month.	3,895.40	905.35	156.24	40.00	285.00
1889.								
Jan. 5	Chas. McAnally et al.	Disinfectors	Salaries, Dec.	699.75				
7	J. J. Smith.	Deputy	Salary and expenses, Dec. 10 to 31.	59.78	4.80			
7	W. H. Cooper	do	Salary and expenses, Dec. (22 days)	110.00	81.12			
7	J. J. Clarke	Deputy	Salary and expenses, Dec	84.20	6.10			
7	Peter Girth	do	do	84.20	6.95			
7	Simon Kelly	Deputy	Salary and expenses, December	84.20	26.05			
7	E. L. Loblein.	do	Salary and expenses, December (16 days)	80.00	32.67			
7	Robert Quinlan.	Deputy	Salary and expenses, December	84.20	28.00			
7	C. J. Teehan	do	do	84.20	31.00			
7	Andrew Garling	do	do	84.20	31.50			

7	G. W. Garretson	do	do	84.20	49.30	
7	John Roberts	do	do	84.20	53.55	
7	E. F. Gorman	do	do	84.20	59.95	
7	H. D. Gill	do	do	134.80	46.50	
7	J. A. Lawson	Jersey City	Hardware		15.45	
7	F. H. Spengeman	do	Office rent, December		50.00	
7	Seneca Barker	Clerk	Salary for December			
7	C. D. Noonan	do	do	70.80		
7	B. D. Phillips	do	do	70.80		
7	W. W. Curry	do	do	84.20		
7	E. A. Vreeland	do	Salary and expenses, December	117.90	45.00	
7	H. W. Rowland	do	do	117.90	45.00	
7	R. R. Lettis	Deputy	do	117.90	45.00	
7	William H. Mook	do	do	84.20	12.75	
7	Margaret M. Sullivan	Hudson County	do	134.80	45.00	
7	do	do	1 animal			20.00
7	do	do	2 animals			
9	Herman Baumgarten	Washington	Tags		85.00	56.00
10	W. Dimond	do	Salary and expenses, December	168.50	1.50	
10	William Dimond	do	Expenses disinfecting corps, December		12.30	
10	J. Gerth, jr.	do	Salary and expenses, December	151.00	57.65	
10	Julius Hudson	do	Salary and expenses, December	117.90	9.15	
10	J. R. Chaffin	Appraiser and deputy	do	88.59	22.35	
10	M. G. Mattison	do	Salary and expenses, December (10 days)	50.00	21.75	
10	Jas. P. Hall	Jersey City	Line		62.50	
10	Peter Taylor	Janitor	Services, December	5.00		
11	Jas. A. Walrath	do	Expenses, Dec. 27 to 29	20.75	20	
4	do	do	Salary, Dec. 27 to 29	16.31		
11	A. Leibermann	Hudson County	176 animals			4,488.00
11	do	do	35 animals			
11	Henry Colombo	do	8 animals		804.50	
11	do	do	1 animal		20.00	
29	S. Moos	do	8 animals			212.00
29	do	do	1 animal			
29	do	do	2 animals		45.00	
29	Maria Hanley	do	4 animals			218.00
29	do	do	1 animal		20.00	
29	F. Hausmann	do	do			115.00
29	Nathan Kahn	do	do			35.00
29	do	do	do			30.00
Total for month..... \$10,404.54				3,238.53	875.56	5,164.00
Feb.	Jas. F. McCullough et al	Disinfectors	Salaries, January	324.50		
8	E. L. Loblein	do	Salary and expenses, January (20 days)	100.00	34.75	
8	C. Teehan	Deputy	Salary and expenses, January	86.10	34.30	
8	Robert Quinlan	do	do	81.20	31.20	
8	Chas. McAnally	do	do	72.00	36.59	
8	R. R. Lettis	do	do	86.10	14.81	
8	Wm. H. Mook	do	do	137.80	45.00	
8	B. D. Phillips	Clerk	Salary for January	86.10		
8	C. D. Noonan	do	do	72.30		
8	Seneca Barker	do	do	72.30		
8	W. Dimond	do	Salary and expenses, January	172.20	91.04	
9	J. Gerth, jr.	do	do	155.00	52.35	

*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Feb.	W. H. Cooper.....	Deputy	Salary and expenses, January (19 days).....	\$95.00	\$75.02			
9	E. F. Gorman.....	do	Salary and expenses, January.....	86.10	55.50			
9	G. W. Garvelson.....	do	do	86.10	45.25			
9	Julius Huelson.....	Deputy	do	120.60	9.35			
9	J. L. Chaitan.....	do	do	86.10	16.45			
9	M. G. Mattison.....	do	Salary and expenses, January (12 days).....	60.00	27.65			
9	H. D. Gill.....	do	Salary and expenses, January.....	137.80	55.41			
9	H. W. Rowland.....	do	do	120.60	45.00			
9	E. A. Vreeland.....	do	do	120.60	45.00			
9	W. W. Curry.....	do	do	120.60	45.00			
9	John Roberts.....	Deputy	do	86.10	46.40			
9	Peter Girth.....	do	do	86.10	39.55			
9	Andrew Garling.....	do	do	86.10	31.20			
9	Simon Kelly.....	do	do	86.10	23.75			
9	J. J. Clarke.....	do	do	86.10	7.00			
9	J. J. Smith.....	do	do	86.10	7.00			
9	F. H. Spengeman.....	Jersey City	Office rent, January.....			\$50.00		
9	A. S. Barnes & Co.....	New York	Stationery.....			38.70		
9	Albert Datz.....	Jersey City	Index books.....			18.00		
9	J. A. Lawson.....	Jersey City	Hog rings, etc.....			12.15		
9	John Welch.....	do	Rent, store-room, January.....			6.00		
9	Peter Taylor.....	Janitor	Services, January.....	5.00				
11	James A. Walrath.....	do	Salary and expenses, Jan. 7.....	5.56	5.14			
19	William Dimond.....	do	Expenses disfecting corps, January.....		7.40			
19	Babbitt & Lawrence.....	Jersey City	Professional services.....	150.00				
21	do.....	do	do	100.00				
21	J. Gerth, jr.....	do	Salary and expenses, Feb. 1 to 19.....	95.00	40.55			
26	W. H. Cooper.....	do	Salary and expenses, Feb. (12 days).....	60.00	57.58			
			Total for month.....	3,416.16	1,025.28	124.85		
Mar.	W. Dimond.....		Salary and expenses, February.....	155.60	86.00			
2	B. D. Phillips.....	Clerk	Salary for February.....	77.80				
2	Seneca Barker.....	do	do	65.40				
2	C. D. Noonan.....	do	do	65.40				
6	James F. McCullough, et al.....	Disinfectors	Salaries for February.....	250.00				
6	H. W. Rowland.....	do	Salary and expenses, February.....	108.80	45.00			
6	William H. Mook.....	do	do	124.40	45.00			
6	W. W. Curry.....	do	do	108.80	45.00			
6	Edgar A. Vreeland.....	do	do	108.80	45.00			



7	H. D. Gill	Deputy	do	124.40	59.55				
7	George W. Garretson	Deputy	do	41.55	77.80				
7	Julius Hrelsen	Deputy	do	108.80	8.35				
7	James J. Clarke	Deputy	do	77.80	4.85				
7	Eldon L. Loblein	Deputy	Salary and expenses, February (18 days)	90.00	30.19				
7	Chas. McAnally	Deputy	Salary and expenses, February	72.00	22.05				
7	John J. Smith	do	do	77.80	4.85				
7	R. R. Lettis	do	do	77.80	2.55				
7	M. G. Mattison	do	Salary and expenses, February (7 days)	35.00	14.25				
7	William Dimond	Janitor	Expenses disinfecting corps, February	5.00	4.75				
7	Peter Taylor	Jersey City	Office rent, February	77.80	47.90	50.00			
8	F. H. Spengeman	Deputy	Salary and expenses, February	77.80	44.55				
11	Peter Girih	do	do	77.80	28.90				
11	John Roberts	do	do	77.80	25.90				
11	Robert Quinlan	do	do	77.80	22.15				
11	Andrew Garling	do	do	77.80	21.95				
11	J. R. Chattin	do	do	77.80	21.95				
11	Simon Kelly	do	do	77.80	21.95				
12	J. A. Lawson	Jersey City	Padlocks, chain, etc.	52.78	42.55	94.25			
13	Edward F. Gorman	Deputy	Salary and expenses, Feb. 1 to 19	52.78	31.90	6.00			
13	John Welch	Jersey City	Rent store-room, February	52.78	31.90				
15	Cornelius Teehan	Deputy	Salary and expenses, Feb. 1 to 19	52.78	31.90				
19	Jane Hickey	Hudson County	3 animals	52.78	31.90				
19	do	do	1 animal	52.78	31.90				
19	George Schaffner	do	do	52.78	31.90				
19	D. Katz	do	do	52.78	31.90				
19	Simon Leibermann	do	110 animals	52.78	31.90				
27	do	do	14 animals	52.78	31.90				
			Total for month	2,392.76	724.74	150.25			
3	Jas. F. McCullough et al.	Disinfectors	Salaries, Mar.	499.50	193.84				
6	W. Dimond	do	Salary and expenses, Mar.	172.20	11.35				
6	H. D. Gill	do	Expenses disinfecting corps, Mar.	137.80	57.85				
6	John Roberts	Deputy	Salary and expenses, Mar.	86.10	52.90				
6	Geo. W. Garretson	do	do	86.10	49.75				
6	Wm. H. Mook	do	do	137.80	45.00				
6	W. W. Curry	do	do	120.60	45.00				
6	E. A. Vreeland	do	do	120.60	45.00				
6	C. D. Noonan	do	do	72.30	45.00				
6	Seneca Barker	Clerk	Salary for Mar.	72.30	45.00				
6	B. D. Phillips	do	do	72.30	45.00				
6	F. H. Spengeman	Jersey City	Office rent, Mar.	86.10	50.00				
6	New York and New Jersey Telephone Company	do	Exchange rental, and tolls	86.10	29.00				
6	A. S. Barnes & Co.	New York	Stationery		23.51				
6	J. A. Lawson	Jersey City	Wire-cutters, etc.		14.00				
9	John J. Smith	Deputy	Salary and expenses, Mar.	86.10	5.45				
9	J. R. Chattin	do	do	86.10	20.15				
9	Simon Kelly	do	do	86.10	23.35				
9	Andrew Garling	do	do	86.10	27.30				

Apr.

*Expended from the appropriation for 1888-'89, by States—Continued.*

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Apr. 9	Robert Quinlan	Deputy	Salary and expenses, Mar	\$86.10	\$27.30			
9	R. R. Letts	do	do	86.10	40.60			
9	H. W. Rowland	do	do	120.60	45.00			
9	Peter Taylor	Janitor	Services, Mar	5.00				
9	B. McAnally	Jersey City	Rent store-room, Mar			\$6.00		
10	Julius Huelsen		Salary and expenses, Mar	120.60	9.25			
10	Peter Girth	Deputy	do	86.10	42.40			
10	Chas. McAnally	do	do	78.00	50.23			
10	Jas. J. Clarke	do	do	86.10	5.45			
10	Seneoa Barker	Clerk	Salary for Apr. 1 to 6	13.85				
10	E. L. Loblein	do	Salary and expenses, Mar. (18 days)	90.00	28.33			
11	Wm. Wright	Hudson County	1 animal			\$25.00		
11	Martin Gibbons	do	2 animals			\$50.00		
11	D. Katz	do	1 animal			25.00		
11	do	do	7 animals					
11	John Slamon	do	3 animals					
11	do	do	1 animal					
12	Peter Girth	Deputy	Salary and expenses, Apr. 1 to 6	16.48	16.15			
15	John Roberts	do	do	16.48	19.25			
15	Jas. P. Hall	Jersey City	Lime			31.25		
19	W. Dimond	do	Salary and expenses, Apr. 1 to 15	82.42	40.20			
			Total for month	2,823.63	850.10	153.76	95.00	272.00
May	H. D. Gill		Salary and expenses, Apr	131.90	51.13			
8	Geo. W. Garretson	Deputy	do	82.40	49.85			
8	E. L. Loblein	do	Salary and expenses, Apr. (18 days)	90.00	36.97			
8	Julius Huelsen	do	Salary and expenses, Apr	113.40	9.05			
8	R. R. Letts	Deputy	do	82.40	39.83			
8	Robert Quinlan	do	do	82.40	33.60			
8	Andrew Garling	do	do	82.40	33.50			
8	J. R. Chatin	do	do	82.40	13.49			
8	Harvey Ostrander	Deputy	Salary and expenses, Apr. 15 to 30	43.95	5.55			
8	John J. Smith	do	Salary and expenses, Apr	82.40	5.45			
8	Chas. McAnally	do	Salary and expenses, Apr. 1 to 6	18.00	9.39			
8	Jas. J. Clarke	do	do	16.48	1.45			
8	J. W. Hawk	do	Salary and expenses, Apr. 16 to 30	82.42	59.00			
8	Wm. H. Mook	do	Salary and expenses, Apr	131.90	45.00			
8	W. W. Curry	do	do	115.40	45.00			
8	E. A. Vreeland	do	do	115.40	45.00			







9	H. W. Rowland	do	115.40	47.15	.....	.....	.....
9	W. W. Curry	do	115.40	45.00	.....	.....	.....
9	Jas. F. McCullough et al.	Disinfectors	.....	.....	Salaries, June	.....	.....
9	George Fick	Jersey City	475.75	.....	Rent store-room, June	.....	.....
9	Peter Taylor	Janitor	.....	6.00	Services for June	.....	.....
11	Wm. B. E. Miller	do	5.00	.....	Salary and expenses, June	.....	.....
11	W. H. Cooper	Deputy	131.90	70.48	do	.....	.....
11	Werner Kunge	do	115.40	76.91	Salary and expenses, June 1 to 14	.....	.....
11	do	do	38.46	18.25	Salary and expenses, June 15 to 30	.....	.....
11	Ira C. Kilburn	Deputy	61.54	4.15	Salary and expenses, June	.....	.....
11	William Taylor	do	82.40	37.45	do	.....	.....
11	Joseph Locke	do	82.40	34.12	do	.....	.....
11	James McGirr	do	82.40	27.15	do	.....	.....
11	Simon Kelly	do	82.40	26.40	do	.....	.....
11	James Cassey	do	82.40	22.45	do	.....	.....
11	Melvin Doremus	do	82.40	7.75	do	.....	.....
11	Harvey Ostrander	do	82.40	7.75	do	.....	.....
11	George C. Toffey	do	82.40	7.35	do	.....	.....
11	Thos. Crozer	do	82.40	5.25	Salary and expenses, June 15 to 30	.....	.....
11	B. S. Watson	do	43.96	21.69	do	.....	.....
11	Ward L. Ferguson	do	43.96	9.20	do	.....	.....
11	C. D. Noonan	do	43.96	.25	do	.....	.....
11	B. D. Phillips	Clerk	69.20	.....	Salary for June	.....	.....
11	W. A. Willard	do	91.21	.....	do	.....	.....
11	J. A. Lawson	do	115.40	.....	do	.....	.....
11	Mason, Chapin & Co.	Jersey City	.....	28.40	Hog rings, etc	.....	.....
11	J. W. Hawk	New York	.....	44.72	Bleaching-powder	.....	.....
12	R. R. Letts	Deputy	164.80	87.30	Salary and expenses, June	.....	.....
12	J. H. Letts	do	82.40	42.47	do	.....	.....
12	J. H. Phelan	do	82.40	34.00	do	.....	.....
12	John J. Smith	do	82.40	24.22	do	.....	.....
13	A. Leibermann	Hudson County	.....	.....	75 animals	.....	1,312.50
13	John Meany	do	.....	.....	1 animal	15.00	.....
13	J. Kaupher	do	.....	.....	2 animals	15.00	.....
13	Mary Tietgen	do	.....	.....	1 animal	10.00	.....
13	Gleason & Bailey Manufacturing Company (limited).	New York	.....	91.75	Hose, etc.	.....	.....
13	James P. Hall	Jersey City	.....	93.75	Lime	.....	.....
13	F. H. Spengeman	do	.....	50.00	Office rent, June	.....	.....
13	Mason, Chapin & Co.	New York	.....	18.18	Bleaching-powder	.....	.....
13	A. S. Barnes & Co.	do	.....	9.92	Sationery	.....	.....
13	Atlantic Sulphur Works	do	.....	5.00	Flower of sulphur	.....	.....
13	New York Dyewood, Extract and Chemical Company.	do	.....	2.76	Copperas	.....	.....
26	The New York and New Jersey Telephone Company.	Jersey City	.....	42.90	Exchange rental and tolls	.....	.....
Total			2,818.94	683.04	400.13	75.00	1,628.50
Grand total			41,764.46	10,395.19	2,816.53	5,653.50	20,696.50

*Expended from the appropriation for 1888-'89, by States—Continued.*  
PENNSYLVANIA.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1888.								
Dec. 3	A. J. Fricka	Deputy	Disbursed to Nov. 30.....	\$16, 282. 41	\$1, 986. 26	\$938. 73	\$231. 00	\$1, 489. 00
3	do	do	Salary for Nov. 1 to 15.....	40. 76				
5	A. C. Young	do	Salary for Oct. 14 to 31.....	48. 87				
5	W. A. Willard	Clerk	Salary and expenses, Nov.....	163. 00	17. 21	1. 30		
5	D. G. Hatch	do	Salary for Nov.....	114. 20				
5	J. J. Owens	do	do	114. 20				
5	D. J. Carter	Deputy	Salary and expenses, Nov. 1 to 10.....	27. 17	1. 62			
5	Geo. Carter	do	Salary and expenses, Nov. 11 to 30.....	54. 35	2. 32			
5	R. W. Hickman	do	Salary and expenses, Nov.....	130. 40	24. 65			
6	Wm. H. Rose	do	do	200. 00	3. 88			
6	Jas. McCarron	Deputy	do	81. 60	16. 25			
6	Jas. J. King	do	do	81. 60	16. 25			
6	Thos. F. O'Brien	do	do	81. 60	7. 36			
6	Isaac Brown	do	do	81. 60	7. 28			
6	W. H. Jauney	do	do	81. 60	6. 92			
6	W. T. Fallon	do	do	81. 60	5. 61			
6	J. J. Eberhardt	do	do	81. 60	5. 61			
6	H. Ostrander	do	do	81. 60	4. 17			
6	Chas. L. Hartman	do	do	81. 60	5. 37			
6	J. B. Herron	do	do	81. 60	2. 74			
10	Henry Morse	do	do	70. 65	7. 29			
10	W. A. Swayne	Philadelphia	Salary and expenses, Nov. 1 to 26.....			50. 00		
10	Bogartus, Ellaby & Ellsworth.	New York	Office rent, Nov.....			7. 50		
10	Jos. H. Mann	Philadelphia	Hog rings			1. 00		
12	Chas. E. Bridge	Philadelphia	Stationary					
14	D. E. Salmon	do	Salary and expenses, Nov.....	130. 40	37. 87			
17	Francis Bridge	do	Expenses, Oct. 23.....		8. 80			
22	Chas. E. Bridge	do	Salary and expenses, Nov. 10.....	8. 00	1. 87			
22	J. J. King	Deputy	Salary and expenses, Dec. 1 to 15.....	65. 22	19. 87			
22	Jas. McCarron	do	do	40. 76	7. 15			
22	W. H. Janney	do	do	40. 76	7. 15			
22	J. B. Herron	do	do	40. 76	5. 22			
22	Isaac Brown	do	do	40. 76	3. 57			
22	C. L. Hartman	do	do	40. 76	3. 37			
22	W. T. Fallon	do	do	40. 76	3. 17			
22	J. J. Eberhardt	do	do	40. 76	2. 67			
22	Thos. F. O'Brien	do	do	40. 76	2. 47			
			Total for month.....	2, 350. 06	240. 38	59. 80		



1889. Jan. 3	A. C. Young.....	Deputy	Salary and expenses, Dec.	168.50	6.52	1.00	
3	Harvey Ostrander	do	do	84.20	4.07		
3	Geo. Carter	do	do	84.20	3.47		
3	D. G. Hatch.....	Clerk	Salary for Dec.	117.90			
4	W. H. Rose.....	do	Salary and expenses, Dec.	200.00	4.92		
4	W. A. Willard.....	do	Salary for Dec. 1 to 15	57.07			
7	W. A. Swayne.....	Philadelphia	Office rent, Dec.		50.00		
10	Jos. H. Mann.....	do	Stationery		1.20		
14	Wm. Watt <i>et al.</i> .....	Disinfectors	Salaries, Jan.	81.00			
14	Hillebrand & Wolf	Philadelphia	Locks.		18.00		
21	R. W. Hickman.....	Philadelphia County	Salary and expenses, Dec. 1 to 11	47.83	12.00		
23	Samuel Conn.....	do	6 animals				83.00
23	Henry Goodman.....	do	2 animals				55.00
23	Wm. Siver.....	do	do				29.00
			Total for month.....	840.70	30.98	70.20	167.00
Feb. 6	A. C. Young.....	Deputy	Salary and expenses, January	172.20	24.79	1.50	
6	W. H. Rose.....	do	do	208.00	5.66		
6	George Carter.....	do	do	86.10	8.60		
6	H. Ostrander.....	do	do	86.10	6.42		
6	D. G. Hatch.....	Clerk	Salary for January	120.60			
9	W. A. Swayne.....	Philadelphia	Office rent, January		25.00		
11	Geo. Watt <i>et al.</i> .....	Disinfectors	Salaries, January (1 day)	19.00			
11	Jas. A. Walrath.....	do	Salary and expenses, January (8 days)	44.44	28.03	.62	
11	Francis Bridge.....	do	Salary and expenses, January (6 days)	48.00	11.73		
11	J. H. Mann.....	Philadelphia	Record book		40.80		
19	Geo. Spencer.....	do	Packing and shipping office furniture		5.00		
19	Wm. M. Buckman.....	do	Lime		8.64		
19	J. B. Shannon & Sons	do	Padlocks, etc.		31.23		
19	Hollingsworth & Peterson	do	Chloride of lime		28.42		
20	Thos. H. Farr.....	Philadelphia County	1 animal				23.00
21	Gleason & Bailey Manufacturing Company (limited).	New York	Air-chambers, etc.		17.55		
			Total for month.....	784.44	85.83	158.76	23.00
Mar. 2	W. H. Rose.....	Deputy	Salary and expenses, February	184.00	4.47		
2	Harvey Ostrander	do	do	77.80	4.07		
2	Geo. Carter.....	do	do	77.80	5.59		
2	A. C. Young.....	do	Salary and expenses, February	155.00	4.37	4.25	
2	D. G. Hatch.....	Clerk	Salary for February				
2	W. A. Swayne.....	Philadelphia	Office rent, February	108.80			
21	Francis Bridge.....	do	Salary and expenses, Feb. 14.	8.00	1.63	25.00	
			Total for month.....	612.00	20.73	29.25	
Apr. 10	W. H. Rose.....	Deputy	Salary and expenses, March	208.00	7.53		
10	A. C. Young.....	do	do	172.20	3.59	1.00	
10	Harvey Ostrander	do	do	86.10	5.52		
10	George Carter.....	do	do	86.10	5.62		

*Expended from the appropriation for 1888-'89, by States—Continued.*  
PENNSYLVANIA—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889. Apr. 10	D. G. Hatch	Clerk.	Salary for March	\$120.60				
10	W. A. Swayne	Philadelphia.	Office rent, March.			\$25.00		
10	J. H. Mann	do	Stationery.			2.25		
			Total for month	673.09	\$32.16	28.25		
May	W. H. Rose		Salary and expenses, April	200.00	5.95			
4	A. C. Young		do	164.80	5.47	1.00		
4	Geo. Carter	Deputy	do	82.40	5.37			
4	Daniel G. Hatch	Clerk	Salary for April	115.40				
4	W. A. Swayne	Philadelphia.	Office rent, April			25.00		
8	Harvey Ostrander	Deputy	Salary and expenses, Apr. 1 to 14.	38.45	2.75			
			Total for month	601.05	19.54	26.00		
June	George Carter	Deputy	Salary and expenses, May	85.20	5.47			
6	W. A. Swayne	Philadelphia.	Office rent, May.			25.00		
11	A. C. Young		Salary and expenses, May	170.40	.70			
11	D. G. Hatch	Clerk	Salary for May 1 to 19.	73.08				
12	W. H. Rose		Salary and expenses, May	208.00	6.17	23.63		
			Total for month	536.68	12.34	48.63		
	<i>Supplemental.</i>							
July	W. H. Rose		Salary and expenses, June	200.00	5.57			
5	George Carter	Deputy	do	82.40	5.17			
			Total	282.40	10.74			
			Grand total	22,962.74	2,428.96	1,359.62	\$231.00	\$1,679.00

MARYLAND.

1888. Dec. 5	S. A. Mitchell	Deputy	Disbursed to Nov. 30	18,027.94	4,031.28	861.67	4,005.03	8,597.15
5	Thos. A. Hays	do	Salary and expenses, November	81.60	32.00			
5	E. C. Schroeder	do	do	81.60	31.65			
5	D. R. Hoffman	do	do	97.80	50.00			
5	J. E. Trull	Clerk	Salary for November	97.80	50.00			
				114.20				

5	Thos. B. Gatch.....	Deputy	Salary and expenses, November	81.60	30.00		
5	James Boyd.....	do	Salary for November	81.60			
5	V. F. Collier.....	do	do	81.60			
5	Fred. Faville.....	Clerk	do	81.60			
5	Isaac L. Ball.....	do	do	81.60			
5	T. Alex. Seth.....	do	do	81.60			
5	David Riley.....	Deputy	do	81.60			
5	Carroll Ensor.....	do	do	81.60			
5	Geo. G. Latchford.....	do	do	81.60			
5	Andrew L. Anderson.....	Bradenbaugh, Md	Transportation, etc.....		10.00		
5	P. F. Flannery.....	Baltimore.	Rent store-room, November		4.00		
5	L. G. Hubble.....	Deputy	Salary for November	81.60			
5	Jas. Mackubin.....	Howard County	2 animals			50.00	
5	do	do	27 animals				
5	do	do	2 animals				739.75
5	Richard Cronwell.....	Baltimore County	14 animals				
5	Richard Cronwell <i>et al</i> .....	do	Salary and expenses, November.				362.56
7	L. A. McDaniel.....	Deputy	do	81.60			
7	C. R. Perdue.....	do	do	81.60			
10	Jas. A. Walrath.....	do	do	163.00			
10	A. D. Melvin.....	do	do	163.00			
10	F. W. Patterson.....	do	do	163.00			
10	W. H. Martenet.....	do	do	114.20			
10	C. K. Dyer.....	do	do	130.40			
10	C. K. Dyer.....	do	do	55.00			
10	Jas. F. Ryder.....	do	do	130.40			
10	W. H. Wray.....	do	do	130.40			
10	Daniel Keller.....	do	Salary for November (21 days).	168.00			
10	Geo. C. Faville.....	Deputy	Salary and expenses, November.	97.80			
10	A. W. Clement.....	do	do	260.00			
10	Albert Hassall.....	do	do	163.00			
10	Geo. C. Faville.....	do	do	130.40			
10	John F. Davis.....	do	do				
10	J. F. Shipley.....	Deputy	Salary and expenses, November (22 days).	59.78			
10	Wm. K. Boyle & Son.....	do	Salary for November	81.60			
10	Alex. Yearley & Son.....	Baltimore.	Permit books				
10	Wm. E. Zimmerman.....	do	Office rent, November.		60.00		
12	Wm. S. Brooke.....	Appraiser	Salary and expenses, November	97.80			
12	D. Holland <i>et al</i> .....	do	do	97.80			
13	Geo. C. Faville.....	Disinfectors	Salaries, November	99.00			
13	do	do	Disinfecting corps and miscellaneous expenses, November.		4.80		
14	D. E. Salmon.....	do	Expenses, Dec. 4		3.00		
15	Robert S. Forbes.....	do	Expenses, Dec. 13 and 14		7.80		
19	W. H. Wray.....	do	Salary for December (15 days)	120.00			
22	J. H. Medairy & Co.....	Baltimore	Stationery			19.88	
22	John J. Thomsen.....	do	Chloride lime			9.43	
22	C. J. Stewart & Sons.....	do	Hog rings, etc			5.75	
27	F. Clantice.....	Baltimore County	2 animals				76.22
27	Joseph Creamer.....	Baltimore County	1 animal				
27	do	do	do				58.00
27	Jas. G. Cashell.....	do	do				
27	do	Montgomery County	do				
	Total for month.....		\$6,207.90	3,659.38	974.02	174.44	154.00
							1,246.06



*Expended from the appropriation for 1888-'89, by States—Continued.*

MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Miscellaneous.	Traveling expenses.	Affected cattle.	Exposed cattle.
1889.								
Jan. 3	A. W. Clement.....	.....	Salary and expenses, Dec.....	\$168.50	\$59.00	.....	.....	.....
3	A. D. Melvin.....	.....	do.....	168.50	54.50	.....	.....	.....
3	Albert Hassall.....	.....	do.....	134.80	78.42	.....	.....	.....
3	F. W. Patterson.....	.....	do.....	117.90	74.08	.....	.....	.....
3	C. K. Dyer.....	.....	do.....	134.80	53.10	.....	.....	.....
3	W. H. Martenet.....	.....	do.....	134.80	52.50	.....	.....	.....
3	Daniel Keller.....	Deputy.....	do.....	101.10	54.50	.....	.....	.....
3	L. A. McDaniel.....	do.....	do.....	84.20	35.14	.....	.....	.....
3	S. A. Mitchell.....	do.....	do.....	84.20	34.50	.....	.....	.....
3	Thos. A. Hays.....	do.....	do.....	84.20	31.50	.....	.....	.....
8	Wm. E. Zimmerman.....	Appraiser.....	do.....	101.10	6.65	.....	.....	.....
3	Wm. S. Brooke.....	do.....	do.....	101.10	4.00	.....	.....	.....
3	C. R. Perdue.....	Deputy.....	do.....	84.20	7.00	.....	.....	.....
3	David Riley.....	do.....	do.....	84.20	5.50	.....	.....	.....
3	James Boyd.....	do.....	Salary for Dec.....	84.20	.....	.....	.....	.....
3	J. F. Shipley.....	Clerk.....	do.....	84.20	.....	.....	.....	.....
3	Isaac L. Ball.....	do.....	do.....	84.20	.....	.....	.....	.....
3	Carroll Ensor.....	Deputy.....	do.....	84.20	.....	.....	.....	.....
3	Fred. Faville.....	Clerk.....	do.....	84.20	.....	.....	.....	.....
3	Geo. G. Latchford.....	Deputy.....	do.....	84.20	.....	.....	.....	.....
3	E. C. Schroeder.....	Deputy.....	Salary and expenses, Dec.....	101.10	50.00	.....	.....	.....
3	Thos. B. Gatch.....	do.....	do.....	84.20	30.00	.....	.....	.....
3	V. F. Collier.....	do.....	Salary for Dec.....	84.20	.....	.....	.....	.....
3	John F. Davis.....	do.....	Salary and expenses, Dec.....	84.20	30.00	.....	.....	.....
3	J. B. Trull.....	Clerk.....	Salary for Dec.....	117.90	.....	.....	.....	.....
3	D. B. Hoffman.....	.....	Salary and expenses, Dec.....	101.10	50.00	.....	.....	.....
3	Jas. F. Ryder.....	.....	Salary for Dec.....	134.80	50.00	.....	.....	.....
3	D. Holland <i>et al.</i> .....	Disinfectors.....	do.....	114.20	.....	.....	.....	.....
3	W. H. Wray.....	.....	Salaries, Dec.....	48.00	.....	.....	.....	.....
4	Geo. C. Faville.....	.....	Salary for Dec. (6 days).....	270.00	54.00	.....	.....	.....
4	Wm. E. Zimmerman.....	Baltimore.....	Salary and expenses, Dec.....	114.15	.....	\$3.60	.....	.....
4	Jas. A. Walrath.....	.....	Lime.....	.....	.....	.....	.....	.....
5	T. Alex. Seth.....	Clerk.....	Salary for Dec. (21 days).....	84.20	.....	.....	.....	.....
7	A. Rosenthal & Son.....	Baltimore County.....	Salary for Dec.....	.....	.....	.....	.....	\$20.84
7	Wilson B. Nicholls.....	.....	1 animal.....	.....	.....	.....	.....	25.00
10	P. F. Flannery.....	Anne Arundel County.....	do.....	.....	.....	.....	.....	.....
11	Jas. A. Walrath.....	Baltimore.....	Rent store-room, Dec.....	.....	.....	4.00	.....	.....
11	Geo. C. Faville.....	.....	Expenses, Dec. (21 days).....	56.12	.....	.....	.....	.....
11	Fred. Kafer.....	Baltimore County.....	Expenses, Dec.....	11.75	.....	.....	.....	.....
14	do.....	.....	4 animals.....	.....	.....	.....	.....	102.40
14	do.....	.....	9 animals.....	.....	.....	.....	.....	.....
14	John Schmidt.....	do.....	1 animal.....	.....	.....	.....	\$232.26	20.00

14	Evan B. McKinstry.....	Carroll County	do	Hog rings, etc	3.51	20.00
14	C. J. Stewart & Sons.....	Baltimore.	do	Office rent, Dec	12.50	
14	Alex. Yearley & Son.....	do	do	Exchange rental.	25.00	
14	Chesapeake and Potomac Telephone Company.....	do	do			
16	Joseph Creamer.....	Baltimore County	15 animals			565.44
16	do	do	1 animal		43.00	
22	R. S. Forbes.....	do	Expenses, Jan. 19 and 21			
24	Geo. C. Faville.....	do	Expenses, Jan. 12	7.75		
24	Geo. M. Bartholow.....	Baltimore County	27 animals		10.54	
24	do	do	28 animals			900.82
24	do	do	1 animal			18.00
24	P. Creaghan.....	do	do			13.00
24	Chas. Hartmann.....	do	do			25.00
24	Louis Markel.....	do	do			13.00
24	Geo. B. Carpenter.....	do	do			23.00
24	Jas. L. Britton.....	do	do			14.00
24	do	Howard County	2 animals			168.32
24	do	do	7 animals			42.00
24	Ursule Brooks.....	do	1 animal			165.00
29	Valentine Noha.....	Baltimore County	7 animals			
29	do	do	2 animals			45.00
			Total for month	\$78.26	70.90	1,801.18
			Salaries, Jan	281.10		
5	D. Holland et al.....	Disinfectors.	Expenses, Jan. 30 and Feb. 1	8.00		
5	Robert S. Forbes.....	do	Salary and expenses, Jan	78.14		
6	Albert Hassall.....	do	Salary for Jan			
6	W. H. Wray.....	do	Salary and expenses, Jan	53.00		
6	W. H. Martenet.....	Deputy	do	56.50		
6	Daniel Keller.....	do	do	35.50		
6	L. A. McDaniel.....	Deputy	do	86.10		
6	S. A. Mitchell.....	do	do	33.50		
6	Thos. A. Hays.....	do	do	31.65		
6	Wm. S. Brooke.....	Appraiser	do	103.30		
6	C. R. Pertue.....	Deputy	do	13.70		
6	David Riley.....	do	do	86.10		
6	A. W. Clement.....	do	do	11.60		
6	C. K. Dyer.....	do	do	3.20		
6	Jas. F. Ryder.....	do	do	172.20		
6	D. E. Hoffman.....	do	do	50.00		
6	E. C. Schroeder.....	do	do	137.80		
6	John F. Davis.....	do	do	50.00		
6	Thos. B. Gatch.....	Deputy	do	103.30		
6	J. B. Trull.....	do	do	86.10		
6	J. F. Shipley.....	Clerk	do	30.00		
6	L. L. Ball.....	do	Salary for Jan	86.10		
6	V. F. Collier.....	do	do	86.10		
6	Fred. Faville.....	Deputy	do	86.10		
6	Geo. G. Larchford.....	Clerk	do	86.10		
6	James Boyd.....	Deputy	do	86.10		
8	A. D. Melvin.....	do	do	86.10		
8	F. W. Patterson.....	do	Salary and expenses, Jan	59.25		
			do	172.20		
				120.60		
				65.35		



*Expended from the appropriation for 1888-'89, by States—Continued.*

MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Feb. 8	Wm. E. Zimmerman	Appraiser	Salary and expenses, Jan.	\$103.30	\$27.20			
8	Geo. C. Faville	Deputy	do	270.00	67.75	\$2.00		
8	Carroll Ensor	Baltimore	Office rent, Jan.	86.10		12.50		
8	Alex. Yearley & Son.		Expenses, Feb. 7		4.25			
8	Robert S. Forbes.		Salary and expenses, Jan. 1 to 3, and 13 to 31.	122.20	53.30			
11	Jas. A. Walrath.	Baltimore.	Chloride of lime, etc.			39.01		
11	John J. Thomsen	do	Lime			18.00		
11	Wm. E. Zimmerman	do	Disinfecting corps and miscellaneous expenses, January.		18.82	11.43		
19	Geo. C. Faville.	Baltimore County	Expenses, Feb. 19		4.25			\$497.00
21	Robert S. Forbes.	do	18 animals				\$501.00	
21	Jos. Friedenwald	do	16 animals					245.00
21	Lewis Kiefer.	do	1 animal					35.00
21	Geo. M. Bartholow	do	do					35.00
21	Ph. Malkus	do	do					30.00
21	John Sinnott	do	do				25.00	28.00
21	Christ. Ebert.	do	do					20.00
21	Joseph Nuth.	do	do					18.00
21	Mary Clay	do	do					15.00
21	Frank Mueller.	do	do					20.00
21	C. F. Wolf.	do	do					15.00
21	Alva S. Ramaburg.	Frederick County	do					20.00
27	Wm. K. Boyle & Son.	Baltimore.	Record books			84.00		
27	C. J. Stewart & Sons.	do	Hog rings, etc.			8.89		
27	F. F. Flannery	do	Rent store-room.			4.00		
			Total for month.....	3,732.00	933.96	179.74	526.00	943.00
Mar. 1	Jas. A. Walrath.	Clerk	Salary and expenses, February	155.60	50.00			
2	Isaac L. Ball.	Deputy	Salary for February	77.80				
2	Geo. G. Latchford	do	do	77.80				
2	David Riley	do	do	77.80				
2	Fred. Faville	Clerk	do	77.80				
2	John F. Davis	Deputy	Salary and expenses, February	77.80	30.00			
2	Thos. B. Gatch.	do	do	77.80	30.00			
2	Thos. A. Hays	do	do	77.80	36.00			
2	J. B. Trull	Clerk	Salary for February	108.80				
2	D. R. Hoffman	do	Salary and expenses, February	93.40	50.00			
2	Daniel Keller.	Deputy	do	93.40	50.00			





*Expended from the appropriation for 1888-'89, by States—Continued.*  
 MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Apr. 3	Thos. A. Hays.....	Deputy	Salary and expenses, March	\$86.10	\$31.85			
3	Wm. E. Zimmerman.....	Appraiser	do	103.30	9.90			
3	Wm. S. Brooke.....	do	do	103.30	3.75			
3	David Riley.....	Deputy	do	86.10	5.50			
3	Fred. Faville.....	Clerk	Salary for March	86.10				
3	Geo. G. Latchford.....	Deputy	do	86.10				
3	J. F. Shipley.....	Clerk	do	86.10				
3	Carroll Ensor.....	Deputy	do	86.10				
3	V. F. Collier.....	do	do	86.10				
3	James Boyd.....	do	do	86.10				
3	Isaac L. Ball.....	Clerk	do	86.10				
3	J. B. Trull.....	do	do	120.00				
3	John F. Davis.....	Deputy	Salary and expenses, March	86.10	30.00			
3	Herman Baumgarten.....	Washington	Tags.		\$34.00			
3	Alex. Yearley & Son.....	Baltimore	Office rent, March		12.50			
3	Emily Lucas.....	Janitor	Services, March	4.50				
3	P. F. Flannery.....	Baltimore	Rent store-room, March		4.00			
5	C. R. Perdue.....	Deputy	Salary and expenses, March	86.10	9.20			
5	W. H. Wray.....	do	Salary for March	184.00				
5	F. W. Patterson.....	do	Salary and expenses, March	120.60	77.20			
5	A. W. Clement.....	do	do	172.20	50.00			
5	C. K. Dyer.....	do	do	137.80	50.00			
5	Jas. F. Ryder.....	do	do	137.80	50.00			
5	E. C. Schroeder.....	do	do	103.30	50.00			
5	Daniel Keller.....	Deputy	do	103.30	50.00			
5	Thos. B. Gatch.....	do	do	86.10	30.00			
5	Wm. K. Boyle & Son.....	Baltimore	Permit books		37.50			
5	Chesapeake and Potomac Telephone Company.....	do	Exchange rental		25.00			
5	Wm. J. O'Brien.....	do	Stationery					
9	Albert Hassall.....	Baltimore	Salary and expenses, March	137.80	53.84	10.30		
9	Wm. E. Zimmerman.....	Baltimore	Lime			3.60		
9	Geo. C. Faville.....	do	Disinfecting corps and miscellaneous expenses, March.		4.75	9.86		
11	Emile A. Hartge.....	Anne Arundel County	1 animal					\$15.00
11	Geo. Schmeiser.....	Baltimore County	do					20.00
11	Louis Dornberg.....	do	do					25.00
13	Thos. B. Gatch.....	Deputy	Salary and expenses, April 1 to 10	27.47	10.00			
15	C. R. Perdue.....	do	do	32.47	3.50			
15	Daniel Keller.....	do	do	32.97	16.67			
17	David Riley.....	do	Salary and expenses, Apr. 1 to 15	41.21	1.60			



	D. E. Salmon	Baltimore.	Expenses, Jan. 14	3.00			
	Wm. K. Boyle & Son.	Baltimore.	Record book.....				
	Robt. S. Forbes	Washington	Expenses, Apr. 15	4.25			20.00
	Herman Baumgarten	Washington	Tags .....				68.00
			Total for month..... \$4, 675.54	\$35.36			224.76
	C. K. Dyer.....		Salary and expenses, April.....	131.90	50.00		
	D. R. Hoffman.....		do .....	98.90	50.00		
	E. C. Schroeder.....		do .....	98.90	50.00		
	S. A. Mitchell.....	Deputy Clerk	do .....	82.40	30.00		
	J. B. Trull.....		Salary for April .....	113.40			
	Fred. Faville.....	do	do .....	82.40			
	Geo. G. Latchford.....	Deputy	do .....	82.40			
	V. F. Collier.....	do	do .....	82.40			
	James Boyd.....	do	do .....	82.40			
	J. F. Shipley.....	Clerk	do .....	82.40			
	Isaac L. Ball.....	do	do .....	82.40			
	Cyrus M. Gardner.....	Deputy	Salary and expenses, Apr. 11 to 30 .....	54.95			
	Frederick Gross.....	do	Salary and expenses, Apr. 12 to 30 .....	52.20			
	J. B. Bauman.....	do	Salary and expenses, Apr. 16 to 30 .....	41.21			
	Thos. A. Hays.....	do	Salary and expenses, April .....	82.40	31.60		
	W. H. Martenet.....	do	do .....	131.90	54.00		
	W. H. Wray.....	Disinfectors.	Salary for Apr. 1 to 13 and 18 to 30 .....	176.00			
	David Holland et al.		Salaries, April .....	97.40			
	Jas. F. Ryder.....	do	Salary and expenses, April .....	131.90	61.75		
	Geo. C. Fayville.....	do	do .....	260.00	64.75		
	Albert Hassall.....	do	do .....	131.90	51.94		
	Carroll Ensor.....	Deputy	do .....	82.40	1.90		
	David N. McCanley.....	do	Salary and expenses, Apr. 11 to 30 .....	54.95	3.30		
	Win. S. Brooke.....	Appraiser	Salary and expenses, Apr. 1 and 3 .....	10.00	6.30		
	A. D. Melvin.....	do	Salary and expenses, April .....	164.80	53.00		
	F. W. Patterson.....	do	Salary and expenses, April .....	115.40	75.72		
	Wm. E. Zimmerman.....	Appraiser	Salary and expenses, Apr. 1 and 2 .....	10.00	2.40		
	A. W. Clement.....	do	Salary and expenses, April .....	164.80	50.00		
	Geo. G. Latchford.....	Deputy	Salary for May 1 to 5 .....	13.74			
	Alex. Yearley & Son.....	Baltimore.	Office rent, April .....		12.50		
	John J. Thousen.....	do	Chloride lime .....		11.80		
	C. J. Stewart & Sons.....	do	Hog rings, etc. ....		4.96		
	Emily Lucas.....	Janitor	Services, April .....	4.50			
	Wm. J. O'Brien.....	Baltimore.	Stationery .....				
	P. F. Flannery.....	do	Rent, store-room, April .....		4.40		
	Wm. E. Zimmerman.....	do	Lime .....		4.00		
	Geo. C. Faville.....	do	Time .....		2.40		
	Wm. H. Hoopes.....	Baltimore County	Expenses, April .....		9.20		
	Valentine Nobla.....	do	1 animal .....				20.00
	Mary Olney.....	do	do .....				20.00
	Justina G. Wrightson.....	Talbot County	do .....				20.00
	S. A. Mitchell.....	Deputy	Salary and expenses, May 1 to 10 .....	27.47	9.68		25.00
	Joseph Creamer.....	Baltimore County	9 animals .....				186.56
	T. M. Richardson.....	do	1 animal .....				25.00
	Ursula Brooks.....	Howard County	do .....				8.00



## Expended from the appropriation for 1888-'89, by States—Continued.

## MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
May 25	Frederick Kafer.....	Baltimore County	4 animals					\$80.34
May 25	Louis Dornberg.....	do	1 animal					20.00
25	Wm. Langemann.....	do	do					20.00
25	Louis Markel.....	do	do					2.00
25	P. Creaghan.....	do	do					2.00
25	Geo. Bartholow.....	do	do					2.00
25	John Newell.....	do	do					13.00
25	Christian Straite.....	Washington County	do					18.00
25	James L. Britton.....	Howard County	2 animals					37.68
			Total for month.....	\$2,859.82	\$648.84	\$49.26		499.58
June 3	J. E. Trull.....	Clerk	Salary for May	119.20				
3	Cyrus M. Gardner.....	Deputy	do	85.20				
3	Fred. Faville.....	Clerk	do	85.20				
3	Isaac L. Ball.....	do	do	85.20				
3	V. F. Collier.....	Deputy	do	85.20				
3	Frederick Gross.....	do	do	85.20				
3	James Boyd.....	do	do	85.20				
3	J. F. Shipley.....	Clerk	do	85.20				
3	R. C. Waters.....	Deputy	Salary for May 6 to 31	71.43				
3	Emily Lucas.....	Janitor	Services for May	4.50				
3	Alex. Yearley & Son.....	Baltimore.	Office rent for May		12.50			
3	P. F. Flannery.....	do	Rent of store-room for May		4.00			
6	Geo. C. Faville.....	do	Salary and expenses for May	280.00	75.14			
6	A. D. Melvin.....	do	do	170.40	53.00			
6	W. H. Wray.....	do	Salary for May	192.00				
6	W. H. Martenel.....	do	Salary and expenses for May	136.20	54.50			
6	Albert Hassall.....	do	do	136.20	51.48			
6	Thos. A. Hays.....	Deputy	do	85.20	31.65			
6	J. E. Bausman.....	do	do	85.20				
6	D. N. McCauley.....	do	do	85.20	7.40			
6	Carroll Ensor.....	do	do	85.20	5.30			
6	W. H. Snader.....	do	do	85.20	3.20			
6	F. W. Patterson.....	do	Salary and expenses for May 10 to 31.	60.44	12.26			
6	A. W. Clement.....	do	Salary and expenses for May	119.20	92.95			
6	James F. Ryder.....	do	do	170.40	54.10			
6	Daniel R. Hoffman.....	do	do	136.20	50.00			
6	E. C. Schroeder.....	do	do	102.20	50.00			
6	Wm. J. O'Brien.....	Baltimore.	do	102.20	50.00			
			Stationary			12.35		



*Expended from the appropriation for 1888-'89, by States—Continued.*  
 MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889, July 13	William Reaver	Baltimore County	1 animal.					\$22.00
13	John G. Stone	do	do					15.00
13	George C. Faville	do	Expenses, June			\$2.95		
17	Herman Baumgarten	Washington	Tags			51.00		
			Total	\$3,465.39	\$587.09	109.90		37.00
			Grand total	\$77,443.59	10,303.17	1,790.23	\$6,180.11	15,044.97

# SCIENTIFIC INVESTIGATIONS—SWINE DISEASES.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1888, Dec. 3	F. L. Kilborne	For experimental station	Disbursed to Nov. 30	\$1,714.60	\$37.35	\$579.33
13	H. P. Pillsbury	do	Sundries			21.25
14	Melville Lindsay	do	Rye straw			7.50
18	Edw. B. Markham	do	Rubber gloves			2.50
21	Wm. Hollis	do	Pigs			18.00
26	Chas. R. Talbert	do	do			19.25
31	Theobald Smith	Laboratory	Clover hay			67.45
31	F. L. Kilborne	Experimental station	Salary for December	151.00		
31	C. S. Meyers	do	do	134.80		
		do	do	50.50		
			Total for month	336.90		135.95
1889, Jan. 5	E. O. Shakespeare		Salary and expenses, December (16 days)	160.00	51.30	
7	T. J. Burrill		Salary and expenses, December (10 days)	100.00	102.55	
7	B. Meade Bolton		Salary and expenses, December (17 days)	170.00	67.00	
7	F. L. Kilborne	For experimental station	Pigs			76.46
7	M. W. Beveridge	do	Pans, etc.			8.50
7	W. M. Galt & Co.	do	Feed			145.26
8	F. P. May & Co.	do	Wire netting, etc.			4.90
16	L. Mangum	do	Ice, October-December			6.43



26	Alex. M. Fulford	Baltimore.	Hogs	140.00
31	Theobald Smith	Laboratory	Salary for Jan.	155.00
31	F. L. Kilborne	Experimental station	do	137.80
31	C. S. Meyers	do	do	51.70
			Total for month	774.50
				220.85
Feb. 2	R. C. Goodrich	For experimental station	Carpenter's work	33.00
6	F. L. Kilborne	Investigating diseases, Virginia and Maryland.	Expenses, Jan. 8 to 10 and 22	5.15
6	do	For experimental station	Straps, etc	2.80
8	H. P. Pillsbury	do	Straw	40.95
8	Minnis & Marlyn	do	Galvanized iron	22.05
18	L. H. Hopkins	do	Hardware	26.14
19	E. O. Shakespeare	do	Salary and expenses, January	63.00
20	F. L. Kilborne	For experimental station	Pigs, etc	97.70
21	B. Meade Bolton	do	Salary and expenses, January	1.25
26	T. J. Burrill	do	do	19.54
26	A. W. Clement	do	Expenses, December and January	105.27
26	Church & Stephenson	For experimental station	Lumber	4.44
28	Theobald Smith	Laboratory	Salary for February	155.00
28	F. L. Kilborne	Experimental station	do	140.00
28	C. S. Meyers	do	do	46.60
			Total for month	1,095.20
				514.30
Mar. 2	A. Hoen & Co.	For report on hog cholera	Lithographing and printing 13 plates, 10,000 copies each.	428.08
6	Bullen & McKeever	For experimental station	Pigs	25.00
8	Louis Schmid & Sons	do	Pigeons	4.00
13	T. J. Burrill	do	Salary and expenses, February	13.29
13	W. M. Galt & Co	For experimental station	Feed	42.35
13	Z. D. Gilman	For laboratory	Culture tubes, etc.	62.18
15	B. Meade Bolton	do	Salary and expenses, February	140.55
16	M. W. Beveridge	For experimental station	Pans, etc	20
20	Edward H. Markham	do	Pigs	2.95
25	A. W. Clement	do	Expenses, February	63.00
26	Johnson Brothers	For experimental station	Coal, October-March	110.49
30	E. O. Shakespeare	do	Salary and expenses, February	45.15
30	Theobald Smith	Laboratory	Salary for March	36.67
30	F. L. Kilborne	Experimental station	do	172.20
30	C. S. Meyers	do	do	155.00
			do	51.70
			Total for month	998.90
				256.75
Apr. 3	Wm. M. Galt & Co	For experimental station	Feed	3,264.48
10	A. W. Clement	do	Expenses, Mar.	124.38
16	B. Meade Bolton	do	Salary and expenses, March (21 days)	150.76
23	T. J. Burrill	do	Salary and expenses, March (17 days)	136.05
24	Ernest Edwards, Treasurer, Photo-Gravure Company.	For report on hog cholera	3 plates, 10,000 copies each.	95.65
30	Theobald Smith	Laboratory	Salary for April	170.00
				81.10
				451.50
				164.80

*Expended from the appropriation for 1888-'89—Continued.*  
 SCIENTIFIC INVESTIGATIONS—SWINE DISEASES—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889. 30	F. L. Kilborne	Experimental station	Salary for April	\$148.30		
30	C. S. Meyers	do	do	49.50		
			Total for month	742.60	\$176.75	\$773.55
May 1	E. B. Markham	For experimental station.	Pigs			12.00
15	E. O. Shakespeare		Salary and expenses, March.	240.00	8.00	447.88
31	Theobald Smith	Laboratory	Salary for May	170.40		
31	F. L. Kilborne	Experimental station	do	153.40		
31	C. S. Meyers	do	do	51.00		
			Total for month	614.80	8.00	459.88
June 4	B. Meade Bolton		Salary and expenses, April (22 days)	220.00		51.60
6	Alex. M. Fulford	Baltimore	Hogs			20.00
19	F. L. Kilborne	For experimental station	Pigs			59.00
29	Theobald Smith	Laboratory	Salary for June	164.80		
29	F. L. Kilborne	For experimental station	do	148.30		
29	C. S. Meyers	do	do	49.50		
			Total for month	582.60		130.60
Aug. 1	E. O. Shakespeare		Expenses, May			71.75
1	do		Salary and expenses, April	250.00	8.00	130.94
3	T. J. Burrill		do	150.00		6.45
			Total	400.00	8.00	209.14
			Grand total	7,260.10	1,222.00	6,362.61

SCIENTIFIC INVESTIGATIONS—GENERAL.

1888. Dec. 3	John S. Dewey	For experimental station	Disbursed to Nov. 30	1,777.36	80.08	1,120.20
3	Hutchins & Betz	For laboratory	Laborer, 6½ days	9.38		
3	H. J. Ruppert	For experimental station	Sundries			26.00
3	Burton Vernon	For laboratory	Rent for November			41.66
			State slab			2.00

1889. Jan.	Theobald Smith	Investigating diseases, Minnesota, Iowa, and Wisconsin.	Expenses, Nov. 5 to 24	109.66	10.00
7	Cooper Curtice	For laboratory	Rabbits	3.50	8.30
7	do	Investigating diseases, Maryland	Expenses, Oct. 9 and 14		192.12
8	Thos. Somerville & Sons	For experimental station	Sink, etc		13.00
10	W. M. Galt & Co.	do	Feed		32.25
10	Elphanzo Youngs	do	Prepared food		33.90
13	C. Burlew	do	Asphalt floor		9.58
13	L. H. Hopkins	do	Sundries		1.90
13	do	do	do		3.18
14	F. P. May & Co.	do	do		237.00
20	Theobald Smith	For laboratory	Lumber		23.45
20	Church & Stephenson	For experimental station	Sundries		
28	Minnis & Martyn	do	do		
29	R. C. Goodrich	do	Carpenter, Nov. 2 to Dec. 28	138.75	
31	Wm. S. D. Haines	Laboratory	Salary, Dec. 19 to 31	35.33	
31	Cooper Curtice	do	Salary, December	134.80	
31	V. A. Moore	do	do	101.10	
31	Wm. Alexander	do	do	60.60	
31	Wm. H. Rhees	Experimental station	Salary, December (19 days)	37.17	
31	M. N. Barnard	Laboratory	Salary, December	55.60	
			Total for month	572.73	594.34
				113.16	
10	H. J. Ruppert	For experimental station	Rent for December		41.66
7	F. L. Kilborne	do	Sundries		1.05
7	Z. D. Gilman	For laboratory	Chemicals, etc		68.90
9	Tice & Lynch	do	Freight, etc.		6.67
9	Chesapeake and Potomac Telephone Company	For experimental station	Exchange rental		35.94
10	Geo. S. Davis	For "Index Medicus"	Subscription, 1889		10.00
11	John T. Robey	For laboratory	Laborer, Jan. 11	1.50	
11	John G. Braxton	do	do	1.50	
14	E. and H. T. Anthony & Co.	For "Photographic Bulletin"	Subscription, 1889		3.00
14	Burton Vernon	For laboratory	Laborer, January (2½ days)	7.50	
14	J. B. Sult	For experimental station	Stove, etc		21.00
15	Frederick Deffer	For laboratory	Laborer, January (4 days)	6.00	
19	W. B. Moses & Son	For experimental station	Office furniture		63.00
23	E. Morrison	do	Stationery		2.05
24	Church & Stephenson	do	Lumber		47.99
28	G. Y. Hansell	do	Papering office		7.00
30	Robert Morrison	do	Laborer, January (6 days)	9.00	
30	Cooper Curtice	Laboratory	Salary, January	137.80	
30	V. A. Moore	do	do	103.30	
30	W. S. D. Haines	do	do	86.10	
30	Wm. Alexander	do	do	62.00	
30	M. N. Barnard	do	do	56.80	
30	Wm. H. Rhees	Experimental station	do	62.00	
			Total for month	533.50	308.26
				\$841.76	



*Expended from the appropriation for 1889-'89—Continued.*

SCIENTIFIC INVESTIGATIONS—GENERAL—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889.						
Feb. 2	Frederick Deffer	For laboratory	Carpenter, January (4½ days)	\$6.75		\$41.66
2	H. J. Rupert	For experimental station	Rent for January			72.25
5	Hutchins & Betz	For laboratory	Plumbing, etc			22.91
6	Thos. Somerville & Sons	do	Radiator, etc			212.47
8	Carl Zeiss	do	Instruments			35.79
8	Church & Stephenson	do	Lumber			83.45
8	W. M. Galt & Co.	For experimental station	Feed			13.00
8	Elphanzo Youngs	do	Prepared food			14.40
9	Jas. W. Queen & Co.	For laboratory	Micrometer, etc			34.00
9	F. A. Belt	do	Window frame			
18	Chas. W. Morris	do	Carpenter, January and February (22 days)	66.00		40.55
23	Geo. Ryneal, jr	do	Drawing materials			158.55
26	B. Westermann & Co	do	Books			57.40
26	McIntosh Battery and Optical Co	do	Heliostat, etc			
28	Cooper Curtrice	Laboratory	Salary for February	124.40		
28	V. A. Moore	do	do	93.40		
28	W. S. D. Haines	do	do	77.80		
28	Wm. Alexander	do	do	56.00		
28	Wm. H. Rhces	Experimental station	do	56.00		
28	M. N. Barnard	Laboratory	do	53.67		
			Total for month	\$1,320.45		786.43
Mar. 2	Cooper Curtrice	Investigating disease, Maryland	Expenses, January 9 and 18		\$5.72	
2	W. B. Moses & Son	For laboratory	Table-desk			13.60
2	Gore, Janney & Co	do	Bottle racks			23.00
6	Mrs. W. S. Barnard	For laboratory	Pamphlet cases			14.40
6	H. J. Rupert	For experimental station	Rent for February			41.66
9	Theobald Smith	For laboratory	Expenses, January and February			2.83
12	Wilson-Hood-Cheyney Company (limited).	do	Photo. supplies			96.83
13	L. H. Hopkins	For experimental station	Hardware			7.43
15	Wilson-Hood-Cheyney Company (limited.)	For laboratory	Photo. kits			2.20
30	Chas. A. Freedman	do	Carpenter, March (6 days)	18.00		
30	Cooper Curtrice	Laboratory	Salary for March	137.80		
30	V. A. Moore	do	do	103.30		
30	W. S. D. Haines	do	do	86.10		
30	M. N. Barnard	do	do	62.00		

30	Wm. Alexander.....	do	do	62.00					
30	Wm. H. Rhees.....	Experimental station.....	do	62.00	5.75				
			Total for month.....	531.20		201.95			
2	H. J. Ruppert.....	For experimental station.....	Rent for March.....			41.66			
3	Elphanzo Youngs.....	do	Prepared food.....			14.00			
4	Chesapeake and Potomac Telephone Company.....	do	Exchange rental.....			36.19			
6	L. H. Hopkins.....	For laboratory.....	Lock, etc.....			4.62			
11	W. B. Moses & Son.....	do	Carpet.....			44.15			
15	H. P. Pillsbury.....	For experimental station.....	Straw.....			32.60			
15	F. P. May & Co.....	do	Shovels, etc.....			6.60			
15	Church & Stephenson.....	For laboratory.....	Lumber.....			13.85			
15	F. L. Kilborne.....	For experimental station.....	Expenses, March.....			3.30			
19	S. J. Moeks.....	do	Repairs to wagon.....			7.00			
19	Z. D. Gilman.....	For laboratory.....	Chemicals, etc.....			47.44			
20	Robt. Leitch & Son.....	do	Asbestos.....			12.00			
25	Wm. H. Lacy.....	For experimental station.....	Turnups.....			1.80			
25	Melville Lindsay.....	do	Rubber gloves.....			1.25			
27	Geo. N. Holland.....	do	Lime.....			3.95			
22	Willett & Libbey.....	do	Lim sash.....			3.60			
30	Cooper Curtice.....	Laboratory.....	Salary for April.....	131.90					
30	V. A. Moore.....	do	do	98.90					
30	W. S. D. Haines.....	do	do	82.40					
30	M. N. Barnard.....	do	do	59.30					
30	Wm. Alexander.....	do	do	59.30					
30	Wm. H. Rhees.....	Experimental station.....	do	59.30					
30	Chas. A. Freedman.....	Laboratory.....	Carpenter, April (9½ days).....	28.50					
			Total for month.....	519.60		274.01			
1	McDowell & Sons.....	For experimental station.....	Hay.....			15.01			
3	H. J. Ruppert.....	do	Rent for April.....			41.66			
4	Church & Stephenson.....	For laboratory.....	Lumber.....			3.51			
6	Wm. D. H. Wilson, Treasurer.....	do	Photo supplies.....			10.34			
7	Frank E. Hopkins.....	For experimental station.....	Hooks, etc.....			2.00			
13	Hutchins & Betz.....	For laboratory.....	Iron box.....			3.50			
17	L. Mangum.....	For experimental station.....	Ice.....			8.84			
17	W. M. Galt & Co.....	do	Feed.....			56.18			
20	Theobald Smith.....	For laboratory.....	Expenses, March, April, May.....			3.16			
22	H. P. Pillsbury.....	For experimental station.....	Hay.....			15.40			
23	B. Westermann & Co.....	For laboratory.....	Books.....			33.77			
31	V. A. Moore.....	Laboratory.....	Salary for May.....	136.20					
31	W. S. D. Haines.....	do	do	102.20					
31	Mary N. Barnard.....	do	do	85.20					
31	William Alexander.....	do	do	61.40					
31	Wm. H. Rhees.....	Experimental station.....	do	61.40					
			Total for month.....	507.80		193.37			

*Expended from the appropriation of 1888-'89—Continued.*

SCIENTIFIC INVESTIGATIONS—GENERAL—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889. June 1	H. J. Ruppert.....	For experimental station	Rent for May.....			\$41.66
4	James W. Queen.....	For laboratory	Culture tubes.....			8.90
10	Z. D. Gilman.....	do	Chemical apparatus.....			54.44
12	Walter F. Hewett.....	For experimental station	Feed.....			66.25
19	F. L. Kilborne.....	do	Ewe, lambs, etc.....			5.70
19	M. W. Beveridge.....	do	Cups.....			.60
19	E. Jackson.....	do	Repairs to harness.....			2.69
20	Elphozo Youngs.....	do	Prepared food.....			14.00
20	W. B. Moses & Son.....	do	Making and shades.....			18.00
20	James Cochran.....	do	Iron bars and rods.....			6.15
25	Brodhead & Co.....	For laboratory	Cotton batting.....			1.80
29	F. L. Kilborne.....	Investigating disease, North Carolina	Expenses, June 20 to 26.....		\$52.22	142.78
29	do	do	Transportation of cattle, June 27			35.00
29	Cooper Curtice.....	Laboratory	Salary for June.....	\$131.90		
29	V. A. Moore.....	do	do	98.90		
29	W. S. D. Haines.....	do	do	82.40		
29	M. N. Barnard.....	Laboratory	Salary for June.....	59.30		
29	Wm. Alexander.....	do	do	59.30		
29	Wm. H. Rhees.....	Experimental station	do	59.30		
			Total for month.....	491.10	52.22	397.88
July 2	Theobald Smith.....	Investigating disease, Philadelphia and Baltimore.	Expenses, June 14 and 17.....		10.70	
2	do	Laboratory	Expenses May and June.....			2.83
2	H. J. Ruppert.....	For experimental station.	Rent for June.....			41.66
3	Geo. N. Holland.....	do	Lime.....			4.50
5	L. H. Hopkins.....	do	Barbed wire, etc.....			45.06
5	do	do	Rope, brooms, etc.....			13.81
5	do	do	Locks, etc.....			3.70
5	Robt. Leitch & Sons.....	For laboratory	Galvanized pipe, etc.....			13.37
6	R. C. Goodrich.....	do	Carpenter, June (10 days)	30.00		
8	Geo. W. Knox.....	Experimental station	Transporting cattle.....			12.00
9	Minnis & Martyn.....	do	Repairing water-tank, etc.....			13.50
9	Chesapeake and Potomac Telephone Co.	do	Exchange rental.....			35.94
11	Walter F. Hewett.....	do	Forage.....			100.47
13	Church & Stephenson.....	do	Lumber.....			73.86
13	E. Jackson.....	do	Harness.....			35.00
13	Francis Miller.....	do	Paint, etc.....			34.96
16	W. B. Moses & Son.....	For laboratory	Table and stool.....			5.75

*Supplemental.*



19	Thomas Moore	For experimental station	Ice	12.10
20	H. P. Pillsbury	do	Hay	121.84
20	Walter F. Hewett	do	Forage	85.55
20	Z. D. Gilman	do	Chemical apparatus	120.18
24	Elphouzo Youngs	For laboratory	Prepared food	21.77
25	Woodward & Lothrop	do	Cotton	77
Aug. 17	R. C. Goodrich	do	Constructing fence and shed	103.00
Aug. 12	Z. D. Gilman	do	Rubber cloth	2.00
30	Thos. T. Keane	For experimental station	8 head cattle	187.50
Sept. 4	E. L. Eaton	do	Cow	20.00
4	S. J. Meeks	do	Repairs to wagon	32.00
11	Church & Stephenson	do	Lumber	259.38
18	David Piferling	do	6 head cattle	130.50
Total			30.00	1,532.40
Grand total			5,497.31	5,408.84

## COLLECTING INFORMATION—TEXAS.

1888.	Geo. S. Williamson	Disbursed to Nov. 30	601.60	259.90
Dec. 20	do	Salary and expenses for November	146.80	99.10
1889.	do	Salary for December	151.60	
Jan. 11	do	Salary for January	155.00	
Feb. 19	do	Salary for February	140.00	
Mar. 8	do	Salary for March	155.00	
Apr. 9	do	Total for five months	748.40	99.10
Grand total			1,350.00	359.00

## COLLECTING INFORMATION.

1888.	H. M. Taylor	Disbursed to Nov. 30	1,845.50	840.09	12.58
Dec. 5	do	Salary for November	200.00		
8	do	Expenses for November	130.40	96.00	
14	A. S. Mercer	Salary and expenses, November	134.80	47.25	
14	do	Salary and expenses, October	102.75	102.75	
14	do	Salary and expenses, September	130.40	81.25	
20	E. M. Bell	Salary and expenses, November	114.20	98.43	
Total for month			709.80	425.68	



do	Ogden to Pocatello, Idaho T	6.95
do	Pocatello to Huntington, Oreg	16.30
do	Portland to Tacoma	9.42
do	do	9.00
do	Portland to Huntington	16.18
do	Ogden to Cheyenne	25.00
do	Huntington to Ogden	16.30
do	Pocatello to Ogden	6.95
do	Portland to Tacoma and return	10.95
do	Texarkana to St. Louis	14.70
do	St. Louis to Texarkana and return	22.40
do	St. Louis to Cheyenne	14.35
do	Ashland, Oregon to San Francisco	25.60
do	San Francisco to Templeton and return	14.10
do	Sacramento to Reno and return	15.60
do	Chicago to Beatrice, Neb	4.30
do	Denver to Cheyenne	2.85
do	Cheyenne to Laramie	2.85
do	Laramie to Cheyenne	4.30
do	Cheyenne to Denver	2.90
do	Denver to Colorado Springs	16.18
do	Huntington to Portland	
A. S. Mercer		
Total		\$295.86
Grand total		5,246.70
		2,710.96
		29.23

## INVESTIGATING REPORTED DISEASES.

		Disbursed to Nov. 30.....	\$452.52	224.00	227.32	1.20
1889.	W. H. Wray.....	West Virginia.....				
Jan. 4	Jas. A. Walrath.....	Delaware.....		32.00	47.25	
11	do.....	do.....		38.04		
12	A. K. Robertson.....	Connecticut.....			34.40	.50
12	Alex. Devlin, jr.....	do.....		4.89	3.80	
14	P. Paquin.....	Kansas.....		2.72	1.80	
15	Thos. Bowhill.....	California.....		24.00	36.77	2.05
15	do.....	do.....		136.00	54.67	
15	do.....	do.....		72.00	13.25	
15	do.....	do.....			11.75	
	Total for month.....		\$515.89	309.65	203.69	2.55
Apr. 5	A. J. Chandler.....	California.....		88.00	48.20	
10	Jas. A. Walrath.....	Indiana, Illinois, and Missouri.....		172.20	114.72	
	Total for month.....		\$423.12	260.20	162.92	



*Expended from the appropriation for 1888-'89—Continued.*  
 INVESTIGATING REPORTED DISEASES—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889. May 4 7 9	W. H. Wray C. B. Michener Jas. A. Walrath	North Carolina New Hampshire Missouri and Illinois	Salary and expenses, Apr. 15 to 17 Salary and expenses, Apr. 27, 28, and 29 Salary and expenses, April	\$24. 00 24. 00 164. 80	\$39. 30 26. 29 119. 85	..... ..... .....
		Total for month	\$398. 24	212. 80	185. 44	.....
June 12 19	Jas. A. Walrath F. L. Kilborne	Illinois, Tennessee and Missouri Virginia	Salary and expenses, May Expenses, June 11 and 15	170. 40	119. 19 14. 65	..... .....
		Total for month	\$304. 24	170. 40	133. 84	.....
July 2 8 8 12	Wm. J. Cornwell Wm. H. Wray A. W. Clement Jas. A. Walrath	Virginia Mississippi Virginia Missouri	Steer Salary and expenses, June 14 to 23 Salary and expenses, June 20, 21, and 24 Salary and expenses, June	64. 00 16. 47 164. 80	104. 35 11. 05 89. 85	\$12. 00 ..... ..... .....
		Total	\$462. 52	245. 27	205. 25	12. 00
	Thos. Bowhill do	Los Angeles to Colton Colton to San Francisco			1. 75 16. 75	..... .....
		Grand total	\$2,575.03	1,422.32	1,136.96	15.75
WASHINGTON AND MISCELLANEOUS.						
1888. Dec. 5 5 12 14 14 14 14 14	Chas. C. Fulton & Co. do Wyckoff, Seamans & Benedict D. E. Salmon A. S. Abell & Co do Geo. S. Davis B. Westermann & Co	Baltimore American do Meetings at Chicago and Milwaukee Baltimore Sun do Index Medicus	Disbursed to Nov. 30 Advertising, July 5 to Nov. 15, 1888 Advertising, July 7, 1887, to June 28, 1888 Stationery Expenses, Nov. 16 to 25 Advertising, July 7, 1887, to June 28, 1888 Advertising, July 5, 1888, to Nov. 15, 1888 Subscription, 1888. Books	7,218.07	57.75	1,610.95 162.50 422.50 12.15 338.55 183.00 10.00 45.23

*Transportation orders.*

17	Library Bureau	Cards	8.55	
17	Adams Express Company	Charges	31.10	
19	United States Express Company	do	5.70	
21	W. B. Moses & Son	Office furniture	84.00	
26	Western Union Telegraph Company	Charges	25.74	
31	D. E. Salmon	Salary for December	252.70	
31	Miles Fuller	do	126.40	
31	A. M. Farrington	do	189.50	
31	W. J. Cowing	do	151.60	
31	R. L. Lytes	do	134.80	
31	Robt. S. Forbes	do	117.90	
31	E. B. Jones	do	117.90	
31	Mary Sullivan	do	84.20	
31	Mary T. Dent	do	75.80	
31	S. A. Benter	do	70.80	
31	R. P. Logan	do	60.60	
31	M. G. Marshall	do	53.60	
		Total for month	1,437.80	90.20
			1,829.02	
1889.				
Jan. 8	Orange Judd Company	Books	5.25	
9	Capitol, North O Street and South Washington Rwy. Company	Street-car tickets	12.50	
9	Chesapeake and Potomac Telephone Company	Exchange rental	19.89	
9	Lawyers' Co-Operative Publishing Company	United States Supreme Court Annual	5.00	
11	John C. Parker	Stationery	9.00	
11	do	do	23.53	
14	Chas. Scribner's Sons	Statistical Atlas	30.00	
16	The New York Herald	Subscription	3.80	
19	Orange Judd Company	Books	5.50	
25	Western Union Telegraph Company	Charges	9.53	
28	Herman Baumgarten	Rubber stamps	3.25	
20	Wm. Wesley & Son	Books, "Races Bovines"	26.60	
31	D. E. Salmon	Salary for January	258.30	
31	E. B. Jones	do	129.20	
31	A. M. Farrington	do	193.70	
31	W. J. Cowing	do	155.00	
31	Robt. S. Forbes	do	135.00	
31	P. L. Lytes	do	137.80	
31	Miles Fuller	do	137.80	
31	Mary Sullivan	do	86.10	
31	M. T. Dent	do	77.50	
31	S. A. Benter	do	72.30	
31	R. P. Logan	do	62.00	
31	M. G. Marshall	do	56.80	
		Total for month	1,521.50	1,675.35
			153.85	

## Expended from appropriation for 1888-'89—Continued.

## WASHINGTON AND MISCELLANEOUS—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889, Feb. 6	Wyckoff, Seamans & Benedict. The V. G. Fischer Art and Stationery Company.		Paper Envelopes			\$13.40 90.50
11	United Lines Telegraph Company.		Charges			4.24
18	Chas. W. Morris		Carpenter, February (9 days).	\$27.00		3.20
19	Adams Express Company		Charges			
23	D. E. Salmon		Salary for February	253.40		
28	E. B. Jones		do	116.60		
28	A. M. Farrington		do	175.10		
28	W. J. Cowing		do	140.00		
28	Robt. S. Forbes		do	140.00		
28	P. L. Lyles		do	124.40		
28	Miles Fuller		do	124.40		
28	Mary Sullivan		do	77.80		
28	M. T. Dent		do	70.00		
28	S. A. Benter		do	70.00		
28	R. P. Logan		do	56.00		
28	M. G. Marshall		do	53.67		
			Total for month	1,408.37		111.34
Mar. 1	Western Union Telegraph Company		Charges			12.18
2	W. H. Veerhoff		Molding, etc			8.35
2	John C. Parker		Stationery			15.82
9	James Rankin		Duck book			.50
15	Herman Baumgarten		Dating stamp			3.50
21	Capitol, North O Street and South Washington Railway Company.		Street-car tickets			12.50
25	Western Union Telegraph Company.		Charges			8.78
8	The Lawyers' Co-Operative Publishing Company.		General Digest, Vol. III.			6.00
30	D. E. Salmon		Salary for March	258.30		
30	E. B. Jones		do	129.20		
30	A. M. Farrington		do	193.70		
30	W. J. Cowing		do	155.00		
30	Robt S. Forbes		do	155.00		
30	P. L. Lyles		do	137.80		
30	Miles Fuller		do	137.80		
30	Mary Sullivan		do	86.10		
30	M. T. Dent		do	77.50		
30	S. A. Benter		do	77.50		



<b>20.</b>	M. G. Marshall.....	do.....	62.00	67.63	33.75
<b>30</b>	E. P. Logan .....	do.....	62.00		100.00
<b>Apr. 4</b>	Chesapeake and Potomac Telephone Company.....	Total for month..... \$1,599.53	1,531.90		15.00
<b>11</b>	Gore Janney & Co.....	Exchange rental.....			3.15
<b>13</b>	Wyckoff Seamans & Benedict.....	File-case.....			2.00
<b>18</b>	Adams Express Company.....	Type-writer ribbons.....			46.00
<b>19</b>	Royce & Mareson.....	Charges.....			8.20
<b>22</b>	John C. Parker.....	Whisperphone.....			
<b>23</b>	Western Union Telegraph Company.....	Stationery.....			
<b>30</b>	D. E. Salmon.....	Charges.....	247.25		
<b>30</b>	E. B. Jones.....	Salary for April.....	123.60		
<b>30</b>	A. M. Farrington.....	do.....	185.40		
<b>30</b>	W. J. Cowing.....	do.....	148.30		
<b>30</b>	Robt S. Forbes.....	do.....	148.30		
<b>30</b>	P. L. Lytes.....	do.....	131.90		
<b>30</b>	Miles Fuller.....	do.....	131.90		
<b>30</b>	Mary Sullivan.....	do.....	82.40		
<b>30</b>	M. T. Dent.....	do.....	74.20		
<b>30</b>	S. A. Beuter.....	do.....	74.20		
<b>30</b>	M. G. Marshall.....	do.....	59.30		
<b>30</b>	R. P. Logan.....	do.....	59.30		
<b>30</b>	Wilson Carey.....	Salary for April (11 days).....	21.76		
<b>May 10</b>	The Journal of Comparative Medicine and Surgery, A. L. Hummel, Publisher.....	Total for month..... \$1,695.91	1,487.81	208.10	2.00
<b>13</b>	Adams Express Company.....	Subscription, 1889.....			2.45
<b>25</b>	Western Union Telegraph Company.....	Charges.....			1.63
<b>31</b>	D. E. Salmon.....	do.....	255.50		
<b>31</b>	E. B. Jones.....	Salary for May.....	127.80		
<b>31</b>	A. M. Farrington.....	do.....	191.70		
<b>31</b>	W. J. Cowing.....	do.....	153.40		
<b>31</b>	Robt. S. Forbes.....	do.....	136.20		
<b>31</b>	P. L. Lytes.....	do.....	136.20		
<b>31</b>	Miles Fuller.....	do.....	85.20		
<b>31</b>	Mary Sullivan.....	do.....	76.60		
<b>31</b>	Mary T. Dent.....	do.....	46.98		
<b>31</b>	S. A. Beuter.....	Salary for May (19 days).....	61.40		
<b>31</b>	M. G. Marshall.....	Salary for May.....	61.40		
<b>31</b>	Wilson Carey.....	do.....			
<b>June 5</b>	C. S. Plumb.....	Total for month..... \$1,491.86	1,485.78	6.08	2.50
<b>8</b>	Herman Baumgarten.....	Subscription, 1889-'89.....			.75
<b>12</b>	Wyckoff Seamans & Benedict.....	Repairing dater.....			33.25
<b>June 12</b>	"Agricultural Science".....	Repairs to type-writers.....			

*Expended from the appropriation for 1888-'89—Continued.*

WASHINGTON AND MISCELLANEOUS—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889, Jan. 12	Adams Express Company		Charges			\$3.90
14	V. G. Fischer, Manager		Stationery			1.43
20	Capitol, North O Street and South Washington Railway Company.		Street-car tickets			12.50
22	John C. Parker		Stationery			24.50
22	Church & Stephenson		Shelving	\$247.25		3.90
29	D. E. Salmon		Salary for June	123.60		
29	E. B. Jones		do	185.40		
29	A. M. Farrington		do	148.30		
29	W. J. Cowling		do	148.30		
29	Robt. S. Forbes		do	131.90		
29	Miles Fuller		do	131.90		
29	I. W. Stone		do	82.40		
29	Mary Sullivan		do	74.20		
29	M. T. Dent		do	59.30		
29	M. G. Marshall		do	59.30		
29	Wilson Carey		do			
			Total for month	1,391.85		82.68
July 6	Western Union Telegraph Company.		Charges			5.33
9	Chesapeake and Potomac Telephone Company.		Exchange rental			33.75
10	Columbia Phonograph Company		Rent of two phonograph-gramophones, etc.			18.12
17	Herman Baumgarten		Hand stamp and type			6.50
19	Wm. H. Teepe		Stationery			13.00
26	Adams Express Company		Charges			4.10
26	John C. Parker		Stationery			39.71
Aug. 5	Western Union Telegraph Company		Charges			4.07
			Total	\$124.58		124.58
			Grand total	17,493.08	\$147.95	3,694.23

*Supplemental.*